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175678

ME

From: Vivlemore, Tracy
Sent: Thursday, January 05, 2006 9:20 AM
To: STIC-Biotech/ChemLib
Subject: Sequence search request, application 10/028415

Hello,

For application 10/028,415, please perform a standard search of SEQ ID NO: 20.

Tracy Vivlemore PhD
Remsen 2B-02, AU 1635
Mailbox: 2C-18
Tel: 571-272-2914

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Searcher: _____
Searcher Phone: _____
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Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:18:19 ; Search time 102 Seconds
(without alignments)
383.396 Million cell updates/sec

Title: US-10-028-415-20

Perfect score: 22
Sequence: 1 ctgcacaggagggttggaatcac 22

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	22	100.0	1481	3	US-09-429-323-3
c 2	22	100.0	3073	2	US-07-688-352C-31
c 3	22	100.0	3073	2	US-08-474-379C-31
c 4	22	100.0	3073	3	US-09-146-249A-31
c 5	22	100.0	3073	3	US-08-206-188B-31
c 6	22	100.0	3073	6	PCT-US91-02714-30
c 7	20	90.9	317	3	US-09-404-879A-380
c 8	20	90.9	317	3	US-09-667-857-380
c 9	20	90.9	317	3	US-10-198-053-380
c 10	20	90.9	317	3	US-09-827-271-380
c 11	17.2	78.2	601	3	US-09-949-016-33785
c 12	17.2	78.2	601	3	US-09-949-016-150908
c 13	17.2	78.2	2022	3	US-09-023-655-416
c 14	17.2	78.2	2088	3	US-09-949-016-4237
c 15	17.2	78.2	4221	3	US-09-949-016-809
c 16	17.2	78.2	21593	3	US-09-949-016-15979
c 17	17.2	78.2	96878	3	US-09-949-016-12551
c 18	17.2	78.2	238815	3	US-09-949-016-16274
c 19	17.2	78.2	312474	3	US-09-949-016-17434
c 20	16.8	76.4	68580	3	US-09-949-016-15844
c 21	16.8	76.4	87562	3	US-09-949-016-13685
c 22	16.4	74.5	601	3	US-09-949-016-35086
c 23	16.4	74.5	601	3	US-09-949-016-147990
c 24	16.4	74.5	1863	3	US-09-614-221A-53

c 25	16.4	74.5	1969	3	US-09-949-016-4155	Sequence 4155, Ap
c 26	16.4	74.5	1996	3	US-09-949-016-873	Sequence 873, Appl
c 27	16.4	74.5	2194	2	US-08-948-569A-9	Sequence 9, Appli
c 28	16.4	74.5	2194	2	US-09-188-469-9	Sequence 9, Appli
c 29	16.4	74.5	2194	3	US-09-397-238A-9	Sequence 9, Appli
c 30	16.4	74.5	2330	3	US-10-104-047-1891	Sequence 1891, Ap
c 31	16.4	74.5	58821	3	US-09-949-016-15897	Sequence 15897, A
c 32	16.4	74.5	58824	3	US-09-949-016-12615	Sequence 12615, A
c 33	16.2	73.6	510	3	US-09-691-538A-8	Sequence 8, Appli
c 34	16.2	73.6	3568	3	US-10-160-719A-1	Sequence 1, Appli
c 35	16.2	73.6	3568	3	US-10-209-059-41	Sequence 41, Appli
c 36	16.2	73.6	3775	3	US-09-900-237-3	Sequence 3, Appli
c 37	16.2	73.6	77626	3	US-09-949-016-12608	Sequence 12608, A
c 38	16.2	73.6	136264	3	US-09-949-016-12756	Sequence 12756, A
c 39	16.2	73.6	136265	3	US-09-949-016-13001	Sequence 13001, A
c 40	16	72.7	858	3	US-09-322-478-13	Sequence 13, Appl
c 41	16	72.7	858	3	US-09-586-106D-13	Sequence 13, Appl
c 42	16	72.7	858	3	US-10-799-870-13	Sequence 13, Appl
c 43	16	72.7	9829	3	US-09-322-478-19	Sequence 19, Appl
c 44	16	72.7	9829	3	US-09-586-106D-19	Sequence 19, Appl
c 45	16	72.7	9829	3	US-10-799-870-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-09-429-323-3/c
; Sequence 3, Application US/09429323A
; Patent No. 6140126 6140123
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF Y-BOX BINDING PROTEIN 1 EXPRESSION
; FILE REFERENCE: RFS-0092
; CURRENT APPLICATION NUMBER: US/09/429,323A
; CURRENT FILING DATE: 1999-10-26
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 3
; LENGTH: 1481
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (127)..(1080)
US-09-429-323-3

Query Match 100.0%; Score 22; DB 3; Length 1481;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 768 CTGCACAGGAGGGTTGGAATAC 747

RESULT 2
US-07-688-352C-31/c
; Sequence 31, Application US/07688352C
; Patent No. 5527896
; GENERAL INFORMATION:
; APPLICANT: Wigler, Michael H.
; APPLICANT: Colicelli, John J.
; TITLE OF INVENTION: Cloning by Complementation and Related
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two first National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago

```
/ STATE: Illinois
/ COUNTRY: USA
/ ZIP: 60603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/688,352C
/ FILING DATE: 19910419
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/511,715
/ FILING DATE: 20-APR-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Borun, Michael F.
/ REGISTRATION NUMBER: 25447
/ REFERENCE/DOCKET NUMBER: 27805/30197
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (312) 346-5750
/ TELEFAX: (312) 984-9740
/ TELEX: 25-3856
/ INFORMATION FOR SEQ ID NO: 31:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 3073 base pairs
/ TYPE: NUCLEIC ACID
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 3..1111
/ US-07-688-352C-31

Query Match 100.0%; Score 22; DB 2; Length 3073;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CTGCACAGGAGGTTGGAATAC 22
Db 779 CTGCACAGGAGGTTGGAATAC 758

RESULT 3
US-08-474-379C-31/c
/ Sequence 31, Application US/08474379C
/ Patent No. 5977305
/ GENERAL INFORMATION:
/ APPLICANT: Wigler, Michael H.
/ APPLICANT: Colicelli, John J.
/ TITLE OF INVENTION: CLONING BY COMPLEMENTATION AND RELATED
/ TITLE OF INVENTION: PROCESSES
/ NUMBER OF SEQUENCES: 88
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
/ STREET: 233 South Wacker Drive/6300 Sears Tower
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: United States of America
/ ZIP: 60606-6402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: IBM PC compatible
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/474,379C
/ FILING DATE: 07-JUN-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/511,715
/ FILING DATE: 20-APR-1990

Query Match 100.0%; Score 22; DB 2; Length 3073;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CTGCACAGGAGGTTGGAATAC 22
Db 779 CTGCACAGGAGGTTGGAATAC 758

RESULT 4
US-09-145-249A-31/c
/ Sequence 31, Application US/09146249A
/ Patent No. 6069240
/ GENERAL INFORMATION:
/ APPLICANT: Wigler, Michael H.
/ APPLICANT: Colicelli, John J.
/ TITLE OF INVENTION: Cloning by Complementation and Related
/ TITLE OF INVENTION: Processes
/ NUMBER OF SEQUENCES: 85
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
/ STREET: 6300 Sears Tower, 233 South Wacker Drive
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: United States of America
/ ZIP: 60606-6402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/146,249A
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/511,715
/ FILING DATE: 20-APR-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Clough, David W.
/ REGISTRATION NUMBER: 36,107
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312/474-6300
/ TELEFAX: 312-474-0448
/ TELEX: 25-3856
/ INFORMATION FOR SEQ ID NO: 31:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 3073 base pairs
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; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..1111
US-09-146-249A-31

Query Match 100.0%; Score 22; DB 3; Length 3073;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
Db 779 CTGCACAGGAGGTTGGAATAC 758

RESULT 5

US-08-206-188B-31/c
; Sequence 31, Application US/08206188B
; Patent No. 6100025
; GENERAL INFORMATION:
; APPLICANT: Wigler, Michael H.
; APPLICANT: Colicelli, John J.
; TITLE OF INVENTION: Cloning by Complementation and Related
; TITLE OF INVENTION: Processes
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/206,188B
; FILING DATE: 01-MAR-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/511,715
; FILING DATE: 20-APR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Clough, David W.
; REGISTRATION NUMBER: 36107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3073 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..1111
US-08-206-188B-31

Query Match 100.0%; Score 22; DB 3; Length 3073;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
Db 779 CTGCACAGGAGGTTGGAATAC 758

RESULT 6

PCT-US91-02714-30/c
; Sequence 30, Application PC/TUS9102714
; GENERAL INFORMATION:
; APPLICANT: Wigler, Michael H.
; APPLICANT: Colicelli, John J.
; TITLE OF INVENTION: Cloning by Complementation and Related
; TITLE OF INVENTION: Processes
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Bicknell
; STREET: Two First National Plaza, 20 South Clark
; STREET: Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US91/02714
; FILING DATE: 19910419
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/511,715
; FILING DATE: 20-APR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25447
; REFERENCE/DOCKET NUMBER: 27805/30197

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 346-5750
; TELEFAX: (312) 984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3073 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..1111
PCT-US91-02714-30

Query Match 100.0%; Score 22; DB 6; Length 3073;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
Db 779 CTGCACAGGAGGTTGGAATAC 758

RESULT 7

US-09-404-879A-380/c
; Sequence 380, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon B.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09/404,879A

; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 393
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 380
; LENGTH: 317
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(317)
; OTHER INFORMATION: n = A,T,C or G
US-09-404-879A-380

Query Match 90.9%; Score 20; DB 3; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCACAGGAGGGTTGGAATAC 22
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Db 29 GCACAGGAGGGTTGGAATAC 10

RESULT 8

US-09-667-857-380/c
; Sequence 380, Application US/09667857
; Patent No. 6699564
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steven P.
; APPLICANT: Retter, Marc W.
; APPLICANT: Fanger, Gary Richard
; APPLICANT: Reed, Steven G.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C5
; CURRENT APPLICATION NUMBER: US/09/667,857
; CURRENT FILING DATE: 2000-09-20
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 380
; LENGTH: 317
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(317)
; OTHER INFORMATION: n = A,T,C or G
US-09-667-857-380

Query Match 90.9%; Score 20; DB 3; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCACAGGAGGGTTGGAATAC 22
|||||
Db 29 GCACAGGAGGGTTGGAATAC 10

RESULT 9

US-10-198-053-380/c
; Sequence 380, Application US/10198053
; Patent No. 6858710
; GENERAL INFORMATION:
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Retter, Marc W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Hill, Paul
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER

; FILE REFERENCE: 210121.462C9
; CURRENT APPLICATION NUMBER: US/10/198,053
; CURRENT FILING DATE: 2002-07-17
; NUMBER OF SEQ ID NOS: 624
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 380
; LENGTH: 317
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 30, 32
; OTHER INFORMATION: n = A,T,C or G
US-10-198-053-380

Query Match 90.9%; Score 20; DB 3; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCACAGGAGGGTTGGAATAC 22
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Db 29 GCACAGGAGGGTTGGAATAC 10

RESULT 10

US-09-827-271-380/c
; Sequence 380, Application US/09827271
; Patent No. 6962980
; GENERAL INFORMATION:
; APPLICANT: Retter, Marc W.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C6
; CURRENT APPLICATION NUMBER: US/09/827,271
; CURRENT FILING DATE: 2001-04-04
; NUMBER OF SEQ ID NOS: 461
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 380
; LENGTH: 317
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(317)
; OTHER INFORMATION: n = A,T,C or G
US-09-827-271-380

Query Match 90.9%; Score 20; DB 3; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCACAGGAGGGTTGGAATAC 22
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Db 29 GCACAGGAGGGTTGGAATAC 10

RESULT 11

US-09-949-016-33785/c
; Sequence 33785, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498

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; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33785
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-33785

Query Match      78.2%; Score 17.2; DB 3; Length 601;
Best Local Similarity 86.4%; Pred. No. 48;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
    ||||| ||||| ||||| ||||| |||||
Db 409 CTGCCAGGTGGTTGGAACAC 388

RESULT 12
US-09-949-016-150908/c
; Sequence 150908, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150908
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-150908

Query Match      78.2%; Score 17.2; DB 3; Length 601;
Best Local Similarity 86.4%; Pred. No. 48;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
    ||||| ||||| ||||| ||||| |||||
Db 409 CTGCCAGGTGGTTGGAACAC 388

RESULT 13
US-09-023-655-416
; Sequence 416, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESS: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 416:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2022 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BLADNOT03
; CLONE: 1602090
US-09-023-655-416

Query Match      78.2%; Score 17.2; DB 3; Length 2022;
Best Local Similarity 86.4%; Pred. No. 59;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
    ||||| ||||| ||||| ||||| |||||
Db 1223 CTGCCAGGTGGTTGGAACAC 1244

RESULT 14
US-09-949-016-4237
; Sequence 4237, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4237
; LENGTH: 2088
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-4237

Query Match      78.2%; Score 17.2; DB 3; Length 2088;
Best Local Similarity 86.4%; Pred. No. 59;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
    ||||| ||||| ||||| ||||| |||||
Db 1558 CTGCCAGGTGGTTGGAACAC 1579

RESULT 15
US-09-949-016-809
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; Sequence 809, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 809
; LENGTH: 4221
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-809

Query Match      78.2%; Score 17.2; DB 3; Length 4221;
Best Local Similarity 86.4%; Pred. No. 67;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CTGCACAGGAGGGTTGGAATAC 22
Db      3690 CTGCCAGGTGGGTTGGAACAC 3711

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Search completed: January 8, 2006, 18:40:23
Job time : 105 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:22:30 ; Search time 561 Seconds
(without alignments)
324.289 Million cell updates/sec

Title: US-10-028-415-20

Perfect score: 22

Sequence: 1 CTGCACAGGAGGTTGGAATAC 22

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 413469905 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA Main:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	100.0	22	5	US-10-028-415-20
2	22	100.0	254	8	US-10-425-115-179020
3	22	100.0	314	6	US-10-029-386-17873
4	22	100.0	400	5	US-10-040-739-1
5	22	100.0	451	3	US-09-969-034-3986
6	22	100.0	478	3	US-09-918-995-36678
7	22	100.0	519	5	US-10-027-632-16296
8	22	100.0	519	5	US-10-027-632-16297
9	22	100.0	519	5	US-10-027-632-16298
10	22	100.0	519	5	US-10-027-632-16299
11	22	100.0	519	6	US-10-027-632-16296
12	22	100.0	519	6	US-10-027-632-16297
13	22	100.0	519	6	US-10-027-632-16298
14	22	100.0	595	6	US-09-969-034-1551
15	22	100.0	822	6	US-10-029-386-4173
16	22	100.0	954	3	US-09-972-331-26
17	22	100.0	1474	6	US-10-172-118-1057
18	22	100.0	1474	6	US-10-388-360-332
19	22	100.0	1474	7	US-10-342-887-1057
20	22	100.0	1474	9	US-10-956-157-1265
21	22	100.0	1481	3	US-09-880-107-2100
22	22	100.0	1481	5	US-10-023-969-2
23	22	100.0	1481	6	US-10-388-215-3

C 24	22	100.0	1516	9	US-10-483-505-45	Sequence 45, Appl
C 25	22	100.0	1520	3	US-09-971-392-82	Sequence 82, Appl
C 26	22	100.0	1554	3	US-10-887-553A-366	Sequence 366, Appl
C 27	20.4	92.7	448	3	US-09-960-352-10627	Sequence 10627, A
C 28	20.4	92.7	1400	9	US-10-956-157-9444	Sequence 9444, Ap
C 29	20.4	92.7	1522	9	US-10-956-157-4209	Sequence 4209, Ap
C 30	20	90.9	317	3	US-09-884-441-380	Sequence 380, App
C 31	20	90.9	317	3	US-09-907-969-380	Sequence 380, App
C 32	20	90.9	317	3	US-09-827-271-380	Sequence 380, App
C 33	20	90.9	317	6	US-10-198-053-380	Sequence 380, App
C 34	20	90.9	317	8	US-10-860-730-380	Sequence 380, App
C 35	19.4	88.2	642	7	US-10-767-701-5414	Sequence 5414, Ap
C 36	19.4	88.2	1189	8	US-10-425-115-36622	Sequence 36622, A
C 37	19.4	88.2	1489	6	US-10-388-215-52	Sequence 52, Appl
C 38	19.4	88.2	1489	7	US-10-152-319A-1916	Sequence 1916, Ap
C 39	19	86.4	2102	9	US-10-450-763-18807	Sequence 18807, A
C 40	18.8	85.5	368	3	US-09-960-352-10869	Sequence 10869, A
C 41	17.4	79.1	576	4	US-09-925-065A-146954	Sequence 146954, A
C 42	17.4	79.1	192992	9	US-10-461-862-95	Sequence 95, Appl
C 43	17.2	78.2	557	4	US-09-925-065A-158278	Sequence 158278, A
C 44	17.2	78.2	578	9	US-10-779-543-20742	Sequence 20742, A
C 45	17.2	78.2	596	4	US-09-925-065A-524409	Sequence 524409, A

ALIGNMENTS

RESULT 1

US-10-028-415-20
; Sequence 20, Application US/10028415
; Publication No. US20020151063A1
; GENERAL INFORMATION:
; APPLICANT: Lasham, Annette
; TITLE OF INVENTION: Methods for Modulating Apoptotic Cell
; TITLE OF INVENTION: Death
; FILE REFERENCE: 11000.1004c3
; CURRENT APPLICATION NUMBER: US/10/028,415
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: PCT/NZ01/00286
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: US 09/724, 809
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 09/036, 004
; PRIOR FILING DATE: 1998-03-04
; PRIOR APPLICATION NUMBER: US 08/713, 557
; PRIOR FILING DATE: 1996-08-30
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Human
US-10-028-415-20

Query Match 100.0%; Score 22; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.48; Mismatches 0; Indels 0; Gaps 0;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22

Db 1 CTGCACAGGAGGTTGGAATAC 22

RESULT 2

US-10-425-115-179020/c
; Sequence 179020, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei

```
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 179020
; LENGTH: 254
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_9484C.1
US-10-425-115-179020

Query Match          100.0%; Score 22; DB 8; Length 254;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 154 CTGCACAGGAGGGTTGGAATAC 133

RESULT 3
US-10-029-386-17873
; Sequence 17873, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: ABOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 17873
; LENGTH: 314
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL138788.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 12
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 12
; OTHER INFORMATION: NT HIT: g114742436, EVALUE 0.00e+00
; OTHER INFORMATION: SWISSPROT HIT: P27817, EVALUE 3.00e-09
; OTHER INFORMATION: EST_HUMAN HIT: BG676581.1, EVALUE 0.00e+00
US-10-029-386-17873

Query Match          100.0%; Score 22; DB 6; Length 314;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 43 CTGCACAGGAGGGTTGGAATAC 64

RESULT 4
US-10-040-739-1
; Sequence 1, Application US/10040739
; Publication No. US20020173635A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John
; APPLICANT: LaValle, Edward
; APPLICANT: Racine, Lisa
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vikki
; TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
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; NUMBER OF SEQUENCES: 1519
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/040,739
; FILING DATE: 07-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/036,520
; FILING DATE: 03-JUN-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Brown, Scott A.
; REGISTRATION NUMBER: 32,724
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 498-8224
; TELEFAX: (617) 876-5851
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-04c-739-1

Query Match          100.0%; Score 22; DB 5; Length 400;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 200 CTGCACAGGAGGGTTGGAATAC 221

RESULT 5
US-09-969-034-3986
; Sequence 3986, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Astle, Jon H.
; APPLICANT: Carroll, Eddie III
; APPLICANT: Catino, Theodore J.
; APPLICANT: Dwivedi, Poorima
; APPLICANT: Molino, Gary A.
; APPLICANT: Thiagalingam, Arunthathi
; APPLICANT: Lewis, Marcia E.
; TITLE OF INVENTION: Nucleic Acid Sequences Differentially
; TITLE OF INVENTION: Expressed in Cancer Tissue
; FILE REFERENCE: 1657/1032
; CURRENT APPLICATION NUMBER: US/09/969,034
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/237,271
; PRIOR FILING DATE: 2000-02-10
; NUMBER OF SEQ ID NOS: 4494
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3986
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
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; LOCATION: 418, 420
; OTHER INFORMATION: n = A,T,C or G
US-09-969-034-3986

Query Match      100.0%; Score 22; DB 3; Length 451;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
    |||||
Db 200 CTGCACAGGAGGGTTGGAATAC 221

RESULT 6
US-09-918-995-36678/c
; Sequence 36678, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36678
; LENGTH: 478
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(478)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-36678

Query Match      100.0%; Score 22; DB 3; Length 478;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
    |||||
Db 101 CTGCACAGGAGGGTTGGAATAC 80

RESULT 7
US-10-027-632-16296
; Sequence 16296, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16296
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-16297

Query Match      100.0%; Score 22; DB 5; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
    |||||
Db 226 CTGCACAGGAGGGTTGGAATAC 247

RESULT 9
US-10-027-632-16298
; Sequence 16298, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
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; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16298
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-16298

Query Match      100.0%; Score 22; DB 5; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 226 CTGCACAGGAGGGTTGGAATAC 247

RESULT 10
US-10-027-632-16296
; Sequence 16296, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16296
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-16296

Query Match      100.0%; Score 22; DB 6; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 226 CTGCACAGGAGGGTTGGAATAC 247

RESULT 11
US-10-027-632-16297
; Sequence 16297, Application US/10027632
; Publication No. US20030204075A9
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; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16297
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-16297

Query Match      100.0%; Score 22; DB 6; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 226 CTGCACAGGAGGGTTGGAATAC 247

RESULT 12
US-10-027-632-16298
; Sequence 16298, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16298
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-16298

Query Match      100.0%; Score 22; DB 6; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.53;
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Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGTTGGAATAC 22
    |||||
Db 226 CTGCACAGGAGGTTGGAATAC 247
    |||||

RESULT 13
US-09-969-034-1551/c
; Sequence 1551, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Astle, Jon H.
; APPLICANT: Carroll, Eddie III
; APPLICANT: Catino, Theodore J.
; APPLICANT: Dwivedi, Poornima
; APPLICANT: Molino, Gary A.
; APPLICANT: Thiagalingam, Arunthathi
; APPLICANT: Lewis, Marcia E.
; TITLE OF INVENTION: Nucleic Acid Sequences Differentially
; FILE REFERENCE: 1657/1032
; CURRENT APPLICATION NUMBER: US/09/969,034
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/237,271
; PRIOR FILING DATE: 2000-02-10
; NUMBER OF SEQ ID NOS: 4494
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1551
; LENGTH: 560
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 385, 394, 473, 528, 560
; OTHER INFORMATION: n = A,T,C or G
US-09-969-034-1551

Query Match 100.0%; Score 22; DB 3; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGTTGGAATAC 22
    |||||
Db 348 CTGCACAGGAGGTTGGAATAC 327
    |||||

RESULT 14
US-10-029-386-4173
; Sequence 4173, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 4173
; LENGTH: 595
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL138788.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 12
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 12
; OTHER INFORMATION: SWISSPROT HIT: P27817, EVALUE 2.00e-12
; OTHER INFORMATION: NT HIT: g114742436, EVALUE 0.00e+00
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; OTHER INFORMATION: EST_HUMAN HIT: AI937888.1, EVALUE 0.00e+00
US-10-029-386-4173

Query Match 100.0%; Score 22; DB 6; Length 595;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGTTGGAATAC 22
    |||||
Db 299 CTGCACAGGAGGTTGGAATAC 320
    |||||

RESULT 15
US-10-257-826A-285
; Sequence 285, Application US/10257826A
; Publication No. US20030181407A1
; GENERAL INFORMATION:
; APPLICANT: SA MAJESTE LA REINE DU CHEF DU CANADA
; APPLICANT: PALIN, Marie-France
; APPLICANT: POMAR, Candido
; APPLICANT: GARIEPY, Claude
; TITLE OF INVENTION: Steatosis-modulating factors and uses
; FILE REFERENCE: 14654-2US
; CURRENT APPLICATION NUMBER: US/10/257,826A
; CURRENT FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: 60/197936
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/CA01/00509
; PRIOR FILING DATE: 2001-04-12
; NUMBER OF SEQ ID NOS: 305
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 285
; LENGTH: 822
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence
; OTHER INFORMATION: Muscular steatosis
; OTHER INFORMATION: Porcine
; NAME/KEY: misc_feature
; LOCATION: (1)...(822)
; OTHER INFORMATION: n = A,T,C or G
US-10-257-826A-285

Query Match 100.0%; Score 22; DB 6; Length 822;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGTTGGAATAC 22
    |||||
Db 71 CTGCACAGGAGGTTGGAATAC 92
    |||||

Search completed: January 8, 2006, 18:49:55
Job time : 562 secs
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Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
C 1	22	100.0	25	7	US-11-121-849-531868		Sequence 531868, A
C 2	20.4	92.7	1360	6	US-10-750-185-47669		Sequence 47669, A
C 3	20.4	92.7	1360	6	US-10-750-623-47669		Sequence 47669, A
C 4	19	86.4	25	7	US-11-121-849-531869		Sequence 531869, A
C 5	19	86.4	1400	7	US-11-136-527-4432		Sequence 4432, Ap
C 6	19	86.4	1666	7	US-11-136-527-336		Sequence 336, App
C 7	17.2	78.2	1882	6	US-10-750-185-40265		Sequence 40265, A
C 8	17.2	78.2	1882	6	US-10-750-623-40265		Sequence 40265, A
C 9	16.8	76.4	75330	7	US-11-124-368A-2915		Sequence 2915, Ap
C 10	16.4	74.5	201	7	US-11-124-368A-6677		Sequence 6677, Ap
C 11	16.4	74.5	201	7	US-11-124-368A-15319		Sequence 15319, A
C 12	16.4	74.5	100000	7	US-11-124-368A-2885		Sequence 2885, Ap
C 13	16.2	73.6	25	7	US-11-069-908-552		Sequence 552, App
C 14	16.2	73.6	25	7	US-11-069-908-2918		Sequence 2918, Ap
C 15	15.8	71.8	3154	7	US-11-108-528-45		Sequence 45, Appl
C 16	15.8	71.8	3355	6	US-10-750-185-61156		Sequence 61156, A
C 17	15.8	71.8	3355	6	US-10-750-623-61156		Sequence 61156, A
C 18	15.8	71.8	42823	7	US-11-066-725-18		Sequence 18, Appl
C 19	15.8	71.8	56054	6	US-10-995-561-13402		Sequence 13402, A
C 20	15.6	70.9	201	6	US-10-995-561-80639		Sequence 80639, A
C 21	15.6	70.9	201	6	US-10-995-561-80761		Sequence 80761, A
C 22	15.6	70.9	201	6	US-10-995-561-80786		Sequence 80786, A
C 23	15.6	70.9	201	6	US-10-750-185-60160		Sequence 60160, A

; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47669
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Bovine 19866880926144
US-10-750-185-47669

Query Match 92.7%; Score 20.4; DB 6; Length 1360;
Best Local Similarity 95.5%; Pred. No. 0.36;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGATAC 22
Db 242 CTGCACAGGAGGTTGGAGTAC 263

RESULT 3
US-10-750-623-47669
; Sequence 47669, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47669
; LENGTH: 1360
; TYPE: DNA
; ORGANISM: Bovine 19866880926144
US-10-750-623-47669

Query Match 92.7%; Score 20.4; DB 6; Length 1360;
Best Local Similarity 95.5%; Pred. No. 0.36;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGATAC 22
Db 242 CTGCACAGGAGGTTGGATAC 263

RESULT 4
US-11-121-849-531869/c
; Sequence 531869, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 531869
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien

US-11-121-849-531869

Query Match 86.4%; Score 19; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAA 19
Db 19 CTGCACAGGAGGTTGGAA 1

RESULT 5
US-11-136-527-4432/c
; Sequence 4432, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4432
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1375)..(1375)
; OTHER INFORMATION: n is a, c, g, or t
US-11-136-527-4432

Query Match 86.4%; Score 19; DB 7; Length 1400;
Best Local Similarity 90.5%; Pred. No. 1.8;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGTTGGAATAC 22
Db 630 TGCACAGGAGGTTGGRATAC 610

RESULT 6
US-11-136-527-336/c
; Sequence 336, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 336
; LENGTH: 1666
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1641)..(1641)
; OTHER INFORMATION: n is a, c, g, or t
US-11-136-527-336

Query Match 86.4%; Score 19; DB 7; Length 1666;
Best Local Similarity 90.5%; Pred. No. 1.9;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGTTGGAATAC 22
|||||
Db 896 TGCACAGGAGGTTGGRATAC 876

RESULT 7

US-10-185-40265
; Sequence 40265, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40265
; LENGTH: 1882
; TYPE: DNA
; ORGANISM: Bovine 19866880841243
US-10-185-40265

Query Match 78.2%; Score 17.2; DB 6; Length 1882;
Best Local Similarity 86.4%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
|||||
Db 764 CAGCAGGAGGAGTGAATAC 785

RESULT 8

US-10-750-623-40265
; Sequence 40265, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40265
; LENGTH: 1882
; TYPE: DNA
; ORGANISM: Bovine 19866880841243
US-10-750-623-40265

Query Match 78.2%; Score 17.2; DB 6; Length 1882;
Best Local Similarity 86.4%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
|||||

Db 764 CAGCAGGAGGAGTGAATAC 785

RESULT 9

US-11-124-368A-2915
; Sequence 2915, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2915
; LENGTH: 75330
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-2915

Query Match 76.4%; Score 16.8; DB 7; Length 75330;
Best Local Similarity 90.0%; Pred. No. 33;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCACAGGAGGTTGGAATAC 22
|||||
Db 18771 GCACAGGAGGTTGGAATCC 18790

RESULT 10

US-11-124-368A-6677/c
; Sequence 6677, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6677
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-6677

Query Match 74.5%; Score 16.4; DB 7; Length 201;
Best Local Similarity 94.4%; Pred. No. 33;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGTTGGA 19
|||||
Db 37 TGCACAGGAGGTTGGA 20

RESULT 11
US-11-124-368A-15319

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; Sequence 15319, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/625,936
; NUMBER OF SEQ ID NOS: 2112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15319
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-124-368A-15319

Query Match 74.5%; Score 16.4; DB 7; Length 201;
Best Local Similarity 94.4%; Pred. No. 33;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GCACAGGAGGGTTGGAAT 20
Db 184 GCACAGGAGGGCTTGGAA 201

RESULT 12
US-11-124-368A-2885
; Sequence 2885, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/625,936
; NUMBER OF SEQ ID NOS: 2112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2885
; LENGTH: 100000
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-124-368A-2885

Query Match 74.5%; Score 16.4; DB 7; Length 100000;
Best Local Similarity 94.4%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGGTTGGAA 19
Db 25636 TGCACAGGAGGGTTGGAA 25653

RESULT 13
US-11-069-908-552
; Sequence 552, Application US/11069908
; Publication No. US20050266432A1
; GENERAL INFORMATION:
; APPLICANT: OLIPHANT, ARNOLD
; APPLICANT: MURRAY, SARAH

```

```

; TITLE OF INVENTION: HAPLOTYPE MARKERS FOR DIAGNOSING SUSCEPTIBILITY TO IMMUNOLOGICAL
; FILE REFERENCE: 029011-0402
; CURRENT APPLICATION NUMBER: US/11/069,908
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: 60/547,823
; PRIOR FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 7098
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 552
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide
; US-11-069-908-552

Query Match 73.6%; Score 16.2; DB 7; Length 25;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGGTTGGAATAC 22
Db 1 TGTACAGGAGCTTTGGAATAC 21

RESULT 14
US-11-069-908-2918
; Sequence 2918, Application US/11069908
; Publication No. US20050266432A1
; GENERAL INFORMATION:
; APPLICANT: OLIPHANT, ARNOLD
; APPLICANT: MURRAY, SARAH
; TITLE OF INVENTION: HAPLOTYPE MARKERS FOR DIAGNOSING SUSCEPTIBILITY TO IMMUNOLOGICAL
; FILE REFERENCE: 029011-0402
; CURRENT APPLICATION NUMBER: US/11/069,908
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: 60/547,823
; PRIOR FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 7098
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2918
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide
; US-11-069-908-2918

Query Match 73.6%; Score 16.2; DB 7; Length 25;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TGCACAGGAGGGTTGGAATAC 22
Db 1 TGTACAGGAGCTTTGGAATAC 21

RESULT 15
US-11-108-528-45
; Sequence 45, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; TITLE OF INVENTION: PROLIFERATION
; FILE REFERENCE: HYDR-P01-041

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; CURRENT APPLICATION NUMBER: US/11/108,528
; CURRENT FILING DATE: 2005-04-18
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/598,368
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 3154
; TYPE: DNA
; ORGANISM: Mouse
US-11-108-528-45

Query Match 71.8%; Score 15.8; DB 7; Length 3154;
Best Local Similarity 89.5%; Pred. No. 82;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCACAGGAGGGTTGGATA 21
|||
Db 1277 GCACAGGAGGGTTGGATA 1295

Search completed: January 8, 2006, 19:06:34
Job time : 993 secs

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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:06:59 ; Search time 1732 Seconds
(without alignments)
722.030 Million cell updates/sec

Title: US-10-028-415-20

Perfect score: 22

Sequence: 1 ctgcacaggagggttggaatac 22

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_in.*

3: gb_env.*

4: gb_om.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pr.*

9: gb_ro.*

10: gb_sts.*

11: gb_sv.*

12: gb_un.*

13: gb_vl.*

14: gb_hcg.*

15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	22	100.0	250	6	AX322171 Sequence
C 2	22	100.0	400	6	BD059641 Secreted
C 3	22	100.0	418	10	BV196146 sqm18735
C 4	22	100.0	537	10	BV335238 S230P6449
C 5	22	100.0	545	6	CQ922201 Sequence
C 6	22	100.0	571	10	BV312092 S236P6311
C 7	22	100.0	775	6	CQ720809 Sequence
C 8	22	100.0	822	6	AX284014 Sequence
C 9	22	100.0	917	8	BC000064 Homo sapi
C 10	22	100.0	922	8	BC072014 Homo sapi
C 11	22	100.0	923	8	AB179457 Macaca fa
C 12	22	100.0	954	6	AX417444 Sequence
C 13	22	100.0	975	11	AY888736 Synthetic
C 14	22	100.0	975	11	AY891136 Synthetic
C 15	22	100.0	975	11	AY891391 Synthetic
C 16	22	100.0	1452	8	HUMDBPB
C 17	22	100.0	1454	8	BC015208 Homo sapi
C 18	22	100.0	1458	8	HUMAAE

C 19	22	100.0	1468	8	HUMNSEP
C 20	22	100.0	1474	6	CS032279
C 21	22	100.0	1474	6	CS041231
C 22	22	100.0	1474	8	HUMRNABP
C 23	22	100.0	1475	8	BC098435
C 24	22	100.0	1476	6	CQ724685
C 25	22	100.0	1481	6	AX117695
C 26	22	100.0	1481	6	AX409453
C 27	22	100.0	1481	6	AX498410
C 28	22	100.0	1481	6	AX840171
C 29	22	100.0	1481	8	HUMYBIA
C 30	22	100.0	1503	4	OCU16821
C 31	22	100.0	1513	8	BC090038
C 32	22	100.0	1521	8	BC038384
C 33	22	100.0	1529	8	BC065571
C 34	22	100.0	1543	8	BC002411
C 35	22	100.0	1548	6	BD203713
C 36	22	100.0	1548	6	AX014868
C 37	22	100.0	1554	8	BC010430
C 38	22	100.0	1574	8	BC070084
C 39	22	100.0	1599	8	BC071708
C 40	22	100.0	2168	8	HUMPSDBPB
C 41	22	100.0	3073	6	AR083654
C 42	22	100.0	3073	6	I22491
C 43	22	100.0	99886	8	AL135841
C 44	22	100.0	144902	14	AC016114
C 45	22	100.0	161835	8	AC098484

ALIGNMENTS

RESULT 1
AX322171/c
LOCUS AX322171 250 bp DNA linear PAT 07-JAN-2002
DEFINITION Sequence 44 from Patent EP1162276.
ACCESSION AX322171
VERSION AX322171.1 GI:18093236
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Kramer,M.D., Winter,H. and Reinartz,J.
TITLE Mrna molecules to be used as indicators of the functional and
JOURNAL activational state of t-lymphocytes
Patent: EP 1162276-A 44 12-DEC-2001;
Lynx Therapeutics GmbH (DE)
FEATURES
source location/Qualifiers
1..250
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

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Best Local Similarity 100.0%; Pred. No. 0.77; 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 0;
Qy 1 CTGCACAGGAGGTTGGAATAC 22
Db 125 CTGCACAGGAGGTTGGAATAC 104
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|||||

RESULT 2
BD059641
LOCUS BD059641 400 bp DNA linear PAT 27-AUG-2002
DEFINITION Secreted expressed sequence tags (sESTs).
ACCESSION BD059641
VERSION BD059641.1 GI:22605247
KEYWORDS JP 2001518793-A/1.

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SOURCE          Zea mays
ORGANISM         Zea mays
REFERENCE        Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
AUTHORS          Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
                  clade; Panicoideae; Andropogoneae; Zea.
TITLE           1 (bases 1 to 400)
JOURNAL          Jacobs,K., Mccoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
                  Treacy,M., Spaulding,V. and Agostino,M.J.
                  Secreted expressed sequence tags (seSTs)
                  Patent: JP 2001518793-A 1 16-OCT-2001;
                  GENETICS INSTITUTE INC
COMMENT          PN JP 2001518793-A/1
                  PD 16-OCT-2001
                  PF 10-APR-1998 JP 1998543070
                  PR 10-APR-1997 US 08/837312
                  PI KENNETH JACOBS,JOHN M MCCOY,EDWARD R LAVALLIE,LISA A RACIE, PI
                  DAVID MERBERG,
                  PI MAURICE TREACY,VIKKI SPAULDING,MICHAEL J AGOSTINO PC
                  C12N15/12,C12N5/10,C07K14/47,C12Q1/68,A61K38/17 CC Strandedness:
                  Double;
                  CC topology: Linear;
                  FH Key Location/Qualifiers.
FEATURES         source
                  1..400
                  /organism="Zea mays"
                  /mol_type="genomic DNA"
                  /db_xref="taxon:4577"
ORIGIN
Query Match      100.0%; Score 22; DB 6; Length 400;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 200 CTGCACAGGAGGGTTGGAATAC 221

RESULT 3
BV196146
LOCUS            sqm187359 Human DNA (Sequenom) Homo sapiens STS genomic, sequence
DEFINITION      tagged site.
ACCESSION       BV196146.1 GI:48040237
VERSION          STS.
KEYWORDS         Homo sapiens (human)
SOURCE           Homo sapiens
ORGANISM         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                  Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                  Homnidae; Homo.
REFERENCE        1 (bases 1 to 418)
AUTHORS          Nelson,R.M., Marnellos,G., Kammerer,S., Hoyal,C.R., Shi,M.M.,
                  Cantor,C.R. and Braun,A.
TITLE           Large-Scale Validation of Single Nucleotide Polymorphisms in Gene
JOURNAL          Regions
COMMENT          Genome Res. (2004) In press

Contact: Andreas Braun
Pharmaceuticals division
Sequenom, Inc.
3595 John Hopkins Court, San Diego, CA 92121, USA
Tel: 18582029018
Fax: 18582029020
Email: abraun@sequenom.com
Primer A: No primer sequence submitted
Primer B: No primer sequence submitted
STS size: 418.
Location/Qualifiers
1..418
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

SOURCE          Zea mays
ORGANISM         Zea mays
REFERENCE        Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
AUTHORS          Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
                  clade; Panicoideae; Andropogoneae; Zea.
TITLE           1 (bases 1 to 400)
JOURNAL          Jacobs,K., Mccoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
                  Treacy,M., Spaulding,V. and Agostino,M.J.
                  Secreted expressed sequence tags (seSTs)
                  Patent: JP 2001518793-A 1 16-OCT-2001;
                  GENETICS INSTITUTE INC
COMMENT          PN JP 2001518793-A/1
                  PD 16-OCT-2001
                  PF 10-APR-1998 JP 1998543070
                  PR 10-APR-1997 US 08/837312
                  PI KENNETH JACOBS,JOHN M MCCOY,EDWARD R LAVALLIE,LISA A RACIE, PI
                  DAVID MERBERG,
                  PI MAURICE TREACY,VIKKI SPAULDING,MICHAEL J AGOSTINO PC
                  C12N15/12,C12N5/10,C07K14/47,C12Q1/68,A61K38/17 CC Strandedness:
                  Double;
                  CC topology: Linear;
                  FH Key Location/Qualifiers.
FEATURES         source
                  1..400
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                  /mol_type="genomic DNA"
                  /db_xref="taxon:4577"
ORIGIN
Query Match      100.0%; Score 22; DB 10; Length 418;
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Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 226 CTGCACAGGAGGGTTGGAATAC 247

RESULT 4
BV335238
LOCUS            S230P6449RD8.T0 Rottweiler Canis familiaris STS genomic, sequence
DEFINITION      tagged site.
ACCESSION       BV335238.1 GI:57535541
VERSION          STS.
KEYWORDS         Canis familiaris (dog)
SOURCE           Canis familiaris
ORGANISM         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                  Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
                  Canis.
REFERENCE        1 (bases 1 to 537)
AUTHORS          Lindblad-Toh,K.
TITLE           The genome sequence of Canis familiaris
JOURNAL          Unpublished (2004)
COMMENT          Contact: Kerstin Lindblad-Toh
                  Whitehead Institute for Biomedical Research, Center for Genome
                  Research
                  320 Charles Street, Cambridge, MA 02141, USA
                  Tel: 6172521477
                  Fax: 6172580903
                  Email: kersli@genome.wi.mit.edu
                  Primer A: No sequence submitted
                  Primer B: No sequence submitted
                  STS size: 537
                  Protocol:
                  WGS-discovery (WGS):
                  Paired-end low-coverage whole genome shotgun reads were generated
                  from 9 brseeds
                  (German Shepherd, Rottweiler, Bedlington Terrier, Beagle, Labrador
                  Retriever, English
                  Shepherd, Italian Greyhound, Alaskan Malamute and the Portuguese
                  Water Dog -100,000 each)
                  and five other canids (Chinese, Alaskan, Indian and Spanish Gray
                  Wolf as well as the
                  Californian Coyote).
                  The WGS reads were placed uniquely on the CanFam1.0 boxer assembly
                  and SNP detection was
                  carried out by SSAHA-SNP. 863872 reads were annotated as STSs and
                  485941 SNPs were
                  annotated with alleles from the boxer and the breed or canid from
                  which the particular
                  read came. The validation rate for these SNPs was estimated at
                  approximately 98%.
                  WGA-discovery (WGA) of Boxer/Poodle SNPs:
                  A second set of SNPs was generated using a similar methodology
                  except that the contigs
                  from the 1.5x poodle assembly (Kirkness 2003) were used instead of
                  WGS reads. Since this
                  sequence lacked base quality scores, arbitrary quality scores of
                  phred 40 were assigned
                  before the poodle sequence was placed uniquely on the CanFam1.0
                  boxer assembly and SNP
                  detection was carried out by SSAHA-SNP. 1637780 SNPs were annotated
                  with alleles from the
                  boxer and the poodle. The validation rate for these SNPs was
                  estimated at approximately TBD%.

```

Internal-WGA-discovery (I-WGA):

A third set of SNPs were discovered by comparing reads in the WGA assembly. SNPs were defined as mismatch positions that had a base quality of ≥ 30 on both reads in a region that aligned without gaps, and with at most one additional mismatch in the ten flanking bases. For each allele, at least one additional read had to confirm it. 731476 SNPs were annotated with alleles between the two boxer alleles. The validation rate for these SNPs was estimated at approximately 78%.

FEATURES

Location/Qualifiers
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 /organism="Canis familiaris"
 /mol_type="genomic DNA"
 /strain="Rottweiler"
 /db_xref="taxon:9615"
 /map="4 2 22-491 14601761-14601292"
 /clone_lib="Rottweiler"
 <1..>537

STS

ORIGIN

Query Match 100.0%; Score 22; DB 10; Length 537;
 Best Local Similarity 100.0%; Pred. No. 0.77;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22

Db 514 CTGCACAGGAGGGTTGGAATAC 493

RESULT 5

BV312092/c Q922201 545 bp DNA linear PAT 23-NOV-2004
 LOCUS Sequence 3401 from Patent WO2004097052.
 DEFINITION CQ922201

ACCESSION CQ922201

VERSION CQ922201.1 GI:56212142

KEYWORDS

Hom sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 Burczynski, M.E., Twine, N.C., Slonim, D.K., Trepicchio, W.L.,

Strahs, A., Immerman, F. and Dornex, A.J.

Methods for prognosis and treatment of solid tumors

Patent: WO 2004097052-A 3401 11-NOV-2004;

Wyeth (US); Burczynski, Michael E. (US)

FEATURES

Location/Qualifiers

1..545

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/mol_type="unassigned DNA"

/db_xref="taxon:9606"

misc_feature 41

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misc_feature 79

/note="n includes a, c, g, or t, or contains no nucleotide"

misc_feature 114

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misc_feature 122

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misc_feature 131

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misc_feature 134

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misc_feature 138

/note="n includes a, c, g, or t, or contains no nucleotide"

misc_feature 231..234

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misc_feature 236..237

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misc_feature 239..244

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misc_feature 246..254

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misc_feature 256..260

/note="n includes a, c, g, or t, or contains no nucleotide"

misc_feature 263

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ORIGIN

Query Match 100.0%; Score 22; DB 6; Length 545;
 Best Local Similarity 100.0%; Pred. No. 0.77;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22

Db 36 CTGCACAGGAGGGTTGGAATAC 15

RESULT 6

BV312092/c

LOCUS BV312092

DEFINITION S236P6311RA2.T0 Alaskan Malamute Canis familiaris STS genomic, sequence tagged site.

ACCESSION BV312092

VERSION BV312092.1

KEYWORDS STS.

SOURCE Canis familiaris (dog)

ORGANISM Canis familiaris

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae; Canis.

REFERENCE 1 (bases 1 to 571)

Lindblad-Toh, K.

The genome sequence of Canis familiaris

Unpublished (2004)

COMMENT

Contact: Kerstin Lindblad-Toh

Whitehead Institute for Biomedical Research, Center for Genome

Research

320 Charles Street, Cambridge, MA 02141, USA

Tel: 6172521477

Fax: 6172580903

Email: kersli@genome.wi.mit.edu

Primer A: No sequence submitted

Primer B: No sequence submitted

STS size: 571

Protocol:

WGS-discovery (WGS):

Paired-end low-coverage whole genome shotgun reads were generated from 9 breeds

(German Shepherd, Rottweiler, Bedlington Terrier, Beagle, Labrador

Retriever, English

Shepherd, Italian Greyhound, Alaskan Malamute and the Portuguese

Water Dog -100,000 each)

and five other canids (Chinese, Alaskan, Indian and Spanish Gray

Wolf as well as the

Californian Coyote).

The WGS reads were placed uniquely on the CanFam1.0 boxer assembly

and SNP detection was

carried out by SSAHA-SNP. 863872 reads were annotated as STSs and 485941 SNPs were annotated with alleles from the boxer and the breed or canid from which the particular read came. The validation rate for these SNPs was estimated at approximately 98%.
WGA-discovery (WGA) of Boxer/Poodle SNPs:
A second set of SNPs was generated using a similar methodology except that the contigs from the 1.5x poodle assembly (Kirkness 2003) were used instead of WGS reads. Since this sequence lacked base quality scores, arbitrary quality scores of phred 40 were assigned before the poodle sequence was placed uniquely on the CanFam1.0 boxer assembly and SNP detection was carried out by SSAHA-SNP. 1637780 SNPs were annotated with alleles from the boxer and the poodle. The validation rate for these SNPs was estimated at approximately TBD%.

Internal-WGA-discovery (I-WGA):
A third set of SNPs were discovered by comparing reads in the WGA assembly. SNPs were defined as mismatch positions that had a base quality of >= 30 on both reads in a region that aligned without gaps, and with at most one additional mismatch in the ten flanking bases. For each allele, at least one additional read had to confirm it. 731476 SNPs were annotated with alleles between the two boxer alleles. The validation rate for these SNPs was estimated at approximately TBD%.

FEATURES

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/organism="Canis familiaris"
/mol_type="genomic DNA"
/strain="AlaskanMalamute"
/db_xref="taxon:9615"
/map="++ 2 22-517 14601592-14601097"
/clone_lib="AlaskanMalamute"
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STS

ORIGIN
Query Match 100.0%; Score 22; DB 10; Length 571;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 345 CTGCACAGGAGGGTTGGAATAC 324

RESULT 7

LOCUS CQ720809/c 775 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 6743 from Patent WO02068579.
ACCESSION CQ720809
VERSION CQ720809.1 GI:42281666
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.
TITLE Kits, such as nucleic acid arrays, comprising a majority of humanexons or transcripts, for detecting expression and other uses thereof
JOURNAL Patent: WO 02068579-A 6743 06-SEP-2002;
PE Corporation (NY) (US)
FEATURES
source
1..775
/organism="Homo sapiens"

ORIGIN

Query Match 100.0%; Score 22; DB 6; Length 775;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 442 CTGCACAGGAGGGTTGGAATAC 421

RESULT 8

LOCUS AX284014 822 bp RNA linear PAT 20-NOV-2001
DEFINITION Sequence 287 from Patent WO0179287.
ACCESSION AX284014
VERSION AX284014.1 GI:17044725
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Palin,M.F., Pomar,C. and gari Py,C.
TITLE Steatosis-modulating factors and uses thereof
JOURNAL Patent: WO 0179287-A 287 25-OCT-2001;
Sa Majesté la Reine du Chef du Canada Agriculture (CA);
Agroalimentaire Canada (CA)
FEATURES
source
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Expressed Sequence Tag Porcine Muscular steatosis"

ORIGIN

Query Match 100.0%; Score 22; DB 6; Length 822;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 71 CTGCACAGGAGGGTTGGAATAC 92

RESULT 9

LOCUS BC000064/c 917 bp mRNA linear PRI 30-SEP-2003
DEFINITION Homo sapiens nuclease sensitive element binding protein 1, mRNA (CDNA clone IMAGE:3510030), partial cds.
ACCESSION BC000064
VERSION BC000064.2 GI:33875176
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 917)
AUTHORS Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altachul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hong,L., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettelman,M., Madan,A., Rodriguez,S.,


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CSD8, YBI"
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/db_xref="GeneID:4904"
/db_xref="MIM:154030"
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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGCACAGAGGGTTGGAATAC 22
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Db 765 CTGCACAGAGGGTTGGAATAC 744

RESULT 11
ABI79457/c
LOCUS
DEFINITION
Macaca fascicularis testis cDNA clone: Qtsa-20374, similar to human
nuclease sensitive element binding protein 1 (NSEP1), mRNA, RefSeq:
NM_004559.2.
ABI79457
ABI79457.1 GI:67972331
oligo capping; fis (full insert sequence).
Macaca fascicularis (crab-eating macaque)
Macaca fascicularis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Cercopithecoidea; Cercopithecoidea; Macaca.
1
International consortium for macaque cDNA sequencing and analysis.
DNA sequences of macaque genes expressed in brain or testis and its
evolutionary implications
2
Unpublished
Osada,N., Hirata,M., Tanuma,R., Kusuda,J., Hida,M., Suzuki,Y.,
Sugano,S., Gojobori,T., Shen,J.C.-K., Wu,C.I. and Hashimoto,K.
Substitution rate and structural divergence of 5'UTR evolution:
Comparative analysis between human and cynomolgus monkey cDNAs
Unpublished
3 (bases 1 to 923)
Hashimoto,K., Kusuda,J. and Sugano,S.
Direct Submission
Submitted (10-MAY-2004) Katsuyuki Hashimoto, National Institute of
Infectious Diseases, Division of Genetic Resources; 23-1, Toyama
1-chome, Shinjuku-ku, Tokyo, 162-8640, Japan
(E-mail:khash@nih.go.jp, URL:http://www.nih.go.jp/yoken/genebank/,
Tel:81-3-5285-1111(ex.2120), Fax:81-3-5285-1181)
The International consortium for macaque cDNA sequencing and
analysis consists of:Department of Virology and Human Genome
Center, Institute of Medical Science, The University of Tokyo,
Tokyo, Japan; Division of Genetic Resources, National Institute of
Infectious Diseases of Japan, Tokyo, Japan; National Health
Research Institute, Taipei, Taiwan; Institute of Molecular Biology,
Academia Sinica, Taipei, Taiwan; Department of Ecology & Evolution,
University of Chicago, Chicago, IL, USA, Center for Information
Biology,
National Institute of Genetics of Japan, Mishima, Japan. Clone
distribution: clone distribution information can be found at:
http://www.nih.go.jp/yoken/genebank/
Lab host: TOP10
Vector: pME18S-FL3 (Acc.No. AB009864)
R. Site1: DraIII (CACTGTGTG)
R. Site2: DraIII (CACCATGTG)
Description: 1st strand cDNA was primed with an oligo(dT) primer
[ATGTGCCCTTTTCTTTTCTTTTCTTTT]; double-stranded cDNA was synthesized
using specific 5' and 3' primers and amplified by PCR. The PCR
product was digested with SfiI and size selection was performed to
exclude fragments <1.5kb.The SfiI-digested PCR product was cloned
into distinct DraIII sites of pME18S-FL3. XhoI sites just outside
the DraIII sites can be used to isolate the cDNA insert. Libraries
were constructed by oligo-capping method. Libraries were made from:
Qcbs: cerebellum cortex
Qnpa: parietal lobe
Qtpa: temporal lobe right
Qfla: frontal lobe left
Qmoa: medulla oblongata
Qbsa: brain stem
Qora: occipital lobe right
Qtsa: testis
Custom primers were used for 5' and 3'-end sequencing. The
full-insert
sequencing was done by primer-walking method using ABI DNA
sequencer.
FEATURES
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Location/Qualifiers
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/db_xref="taxon:9541"
/clone="Qtsa-20374"
/sex="male"
/clone_lib="macaque cDNA library Qtsa"
/dev_stage="adult"
91..474
/note="unnamed protein product; Homo sapiens nuclease
sensitive element binding protein 1 (NSEP1), mRNA, RefSeq:
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/db_xref="GI:67972332"
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Query Match 100.0%; Score 22; DB 8; Length 923;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGCACAGAGGGTTGGAATAC 22
|||||
Db 141 CTGCACAGAGGGTTGGAATAC 120

RESULT 12
ABI79444/c
LOCUS
DEFINITION
Sequence 26 from Patent EP1197495.
ACCESSION
ABI79444
ABI79444.1 GI:21522729
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1
Higashi,K. and Komatsu,K.
AUTHORS
```

<div><div>TITLE</div><div>JOURNAL</div><div>FEATURES</div><div>source</div></div> <div>Dna-binding protein yb-1-containing collagen accumulation inhibitors Patent: EP 1197495-A 26 17-APR-2002; Sumitomo Chemical Company, Limited (JP) Location/Qualifiers 1..954 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" 1..954 /codon_start=1 /protein_id="CAD35407.1" /db_xref="GI:21522730" /translation="MSSEAEETQPPAAPAALSAADTKPGTTGSGAGSGGPGGLTS AAPAGGDKVIATKVLGTWKVNRNGYGFINRNDTKEDVFVHOTAIKKNRPKYLRS VGDGETVEFDVVEGKEGAENVTPGCGVPVQGSKYAADRNHYRRYPRRGPPRNVQ NYQNSESGKEGSESAPEQCAQORRYRRRPPYMRPYPYRRPQYNSNPVQGVEM EGADNQGAGQGPVRQNTGYKPRFRGPPRQRPREDGNEEDKENQDGTQGGQP PQRRYRNFRNRRRPNPKPDGKETKAADPPAENSRSRG"</div> <div><div>CDS</div><div>1..954</div><div>100.0%; Score 22; DB 6; Length 954; Best Local Similarity 100.0%; Pred. No. 0.77; Mismatches 0; Indels 0; Gaps 0; Matches 22; Conservative 0</div></div> <div><div>ORIGIN</div><div>1 CTGCACAGGAGGGTTGGAATAC 22 642 CTGCACAGGAGGGTTGGAATAC 621</div></div> <div><div>RESULT 13</div><div>AY888736/c</div><div>LOCUS</div><div>DEFINITION</div><div>ACCESSION</div><div>VERSION</div><div>KEYWORDS</div><div>SOURCE</div><div>ORGANISM</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>COMMENT</div><div>FEATURES</div><div>source</div></div> <div><div>AY888736</div><div>Synthetic construct Homo sapiens clone FLH030953.01X nuclease sensitive element binding protein 1 (NSEP1) mRNA, complete cds.</div><div>AY888736</div><div>AY888736.1 GI:61359168</div><div>Human ORF Project. synthetic construct other sequences; artificial sequences. 1 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Cloning of human full-length CDS in Creator (TM) recombinational vector system Unpublished 2 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Submitted (04-JAN-2005) Biological Chemistry and Molecular Pharmacology, Harvard Institute of Proteomics, 320 Charles St., Cambridge, MA 02141, USA This CDS clone is a part of a collection of human full-length expression clones generated by Harvard Institute of Proteomics. This ORF clone has been cloned with normalized stop-codon. The CDS has been directionally cloned using BD In-Fusion(TM) cloning system between the SalI and HindIII sites of the pDNR-Dual vector. Additional sequences in the clone: 'ACC' after SalI site and before 'ATG' to provide Kozak consensus sequence. Each clone is clonally isolated and full-length sequence-verified.</div><div>1..975 /organism="synthetic construct" /mol_type="mRNA" /db_xref="taxon:32630" /clone="FLH030953.01X" /lab host="Escherichia coli DH5alpha T1 resistant" /note="derived from MGC template"</div></div> <div><div>TITLE</div><div>JOURNAL</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>COMMENT</div><div>FEATURES</div><div>source</div></div> <div><div>AY888736</div><div>Synthetic construct Homo sapiens clone FLH007972.01L nuclease sensitive element binding protein 1 (NSEP1) mRNA, partial cds.</div><div>AY888736</div><div>AY888736.1 GI:61367906</div><div>Human ORF Project. synthetic construct other sequences; artificial sequences. 1 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Cloning of human full-length CDS in Creator (TM) recombinational vector system Unpublished 2 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Submitted (05-JAN-2005) Biological Chemistry and Molecular Pharmacology, Harvard Institute of Proteomics, 320 Charles St., Cambridge, MA 02141, USA This CDS clone is a part of a collection of human full-length expression clones generated by Harvard Institute of Proteomics. This ORF clone has been cloned without stop-codon (to allow fusion with C-terminal tag). The CDS has been directionally cloned using BD In-Fusion(TM) cloning system between the SalI and HindIII sites of the pDNR-Dual vector. Additional sequences in the clone: 'ACC' after SalI site and before 'ATG' to provide Kozak consensus sequence; 'GG' after last codon and before HindIII site to maintain reading frame. Each clone is clonally isolated and full-length sequence-verified.</div><div>1..975 /organism="synthetic construct" /mol_type="mRNA" /db_xref="taxon:32630" /clone="FLH007972.01L" /lab host="Escherichia coli DH5alpha T1 resistant" /note="derived from Homo sapiens first strand cDNA library from placenta and brain" 1..>975 /gene="NSEP1"</div></div> <div><div>TITLE</div><div>JOURNAL</div><div>FEATURES</div><div>source</div></div> <div><div>Dna-binding protein yb-1-containing collagen accumulation inhibitors Patent: EP 1197495-A 26 17-APR-2002; Sumitomo Chemical Company, Limited (JP) Location/Qualifiers 1..954 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" 1..954 /codon_start=1 /protein_id="CAD35407.1" /db_xref="GI:21522730" /translation="MSSEAEETQPPAAPAALSAADTKPGTTGSGAGSGGPGGLTS AAPAGGDKVIATKVLGTWKVNRNGYGFINRNDTKEDVFVHOTAIKKNRPKYLRS VGDGETVEFDVVEGKEGAENVTPGCGVPVQGSKYAADRNHYRRYPRRGPPRNVQ NYQNSESGKEGSESAPEQCAQORRYRRRPPYMRPYPYRRPQYNSNPVQGVEM EGADNQGAGQGPVRQNTGYKPRFRGPPRQRPREDGNEEDKENQDGTQGGQP PQRRYRNFRNRRRPNPKPDGKETKAADPPAENSRSRG"</div><div><div>CDS</div><div>1..954</div><div>100.0%; Score 22; DB 6; Length 954; Best Local Similarity 100.0%; Pred. No. 0.77; Mismatches 0; Indels 0; Gaps 0; Matches 22; Conservative 0</div></div><div><div>ORIGIN</div><div>1 CTGCACAGGAGGGTTGGAATAC 22 642 CTGCACAGGAGGGTTGGAATAC 621</div></div><div><div>RESULT 13</div><div>AY888736/c</div><div>LOCUS</div><div>DEFINITION</div><div>ACCESSION</div><div>VERSION</div><div>KEYWORDS</div><div>SOURCE</div><div>ORGANISM</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>COMMENT</div><div>FEATURES</div><div>source</div></div><div><div>AY888736</div><div>Synthetic construct Homo sapiens clone FLH030953.01X nuclease sensitive element binding protein 1 (NSEP1) mRNA, complete cds.</div><div>AY888736</div><div>AY888736.1 GI:61359168</div><div>Human ORF Project. synthetic construct other sequences; artificial sequences. 1 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Cloning of human full-length CDS in Creator (TM) recombinational vector system Unpublished 2 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Submitted (04-JAN-2005) Biological Chemistry and Molecular Pharmacology, Harvard Institute of Proteomics, 320 Charles St., Cambridge, MA 02141, USA This CDS clone is a part of a collection of human full-length expression clones generated by Harvard Institute of Proteomics. This ORF clone has been cloned with normalized stop-codon. The CDS has been directionally cloned using BD In-Fusion(TM) cloning system between the SalI and HindIII sites of the pDNR-Dual vector. Additional sequences in the clone: 'ACC' after SalI site and before 'ATG' to provide Kozak consensus sequence. Each clone is clonally isolated and full-length sequence-verified.</div><div>1..975 /organism="synthetic construct" /mol_type="mRNA" /db_xref="taxon:32630" /clone="FLH030953.01X" /lab host="Escherichia coli DH5alpha T1 resistant" /note="derived from MGC template"</div></div><div><div>TITLE</div><div>JOURNAL</div><div>FEATURES</div><div>source</div></div><div><div>Dna-binding protein yb-1-containing collagen accumulation inhibitors Patent: EP 1197495-A 26 17-APR-2002; Sumitomo Chemical Company, Limited (JP) Location/Qualifiers 1..954 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" 1..954 /codon_start=1 /protein_id="CAD35407.1" /db_xref="GI:21522730" /translation="MSSEAEETQPPAAPAALSAADTKPGTTGSGAGSGGPGGLTS AAPAGGDKVIATKVLGTWKVNRNGYGFINRNDTKEDVFVHOTAIKKNRPKYLRS VGDGETVEFDVVEGKEGAENVTPGCGVPVQGSKYAADRNHYRRYPRRGPPRNVQ NYQNSESGKEGSESAPEQCAQORRYRRRPPYMRPYPYRRPQYNSNPVQGVEM EGADNQGAGQGPVRQNTGYKPRFRGPPRQRPREDGNEEDKENQDGTQGGQP PQRRYRNFRNRRRPNPKPDGKETKAADPPAENSRSRG"</div><div><div>CDS</div><div>1..954</div><div>100.0%; Score 22; DB 6; Length 954; Best Local Similarity 100.0%; Pred. No. 0.77; Mismatches 0; Indels 0; Gaps 0; Matches 22; Conservative 0</div></div><div><div>ORIGIN</div><div>1 CTGCACAGGAGGGTTGGAATAC 22 642 CTGCACAGGAGGGTTGGAATAC 621</div></div><div><div>RESULT 13</div><div>AY888736/c</div><div>LOCUS</div><div>DEFINITION</div><div>ACCESSION</div><div>VERSION</div><div>KEYWORDS</div><div>SOURCE</div><div>ORGANISM</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>REFERENCE</div><div>AUTHORS</div><div>TITLE</div><div>JOURNAL</div><div>COMMENT</div><div>FEATURES</div><div>source</div></div><div><div>AY888736</div><div>Synthetic construct Homo sapiens clone FLH030953.01X nuclease sensitive element binding protein 1 (NSEP1) mRNA, complete cds.</div><div>AY888736</div><div>AY888736.1 GI:61359168</div><div>Human ORF Project. synthetic construct other sequences; artificial sequences. 1 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Cloning of human full-length CDS in Creator (TM) recombinational vector system Unpublished 2 (bases 1 to 975) Hines,L., Rolfs,A., Jepson,D., Moreira,D., Raphael,J., Kelley,F., Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E., Williamson,J. and LaBaer,J. Submitted (04-JAN-2005) Biological Chemistry and Molecular Pharmacology, Harvard Institute of Proteomics, 320 Charles St., Cambridge, MA 02141, USA This CDS clone is a part of a collection of human full-length expression clones generated by Harvard Institute of Proteomics. This ORF clone has been cloned with normalized stop-codon. The CDS has been directionally cloned using BD In-Fusion(TM) cloning system between the SalI and HindIII sites of the pDNR-Dual vector. Additional sequences in the clone: '</div></div></div></div>

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ORIGIN
Query Match      100.0%; Score 22; DB 11; Length 975;
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QY 1 CTGCACAGGAGGGTTGGAATAC 22
Db 642 CTGCACAGGAGGGTTGGAATAC 621

RESULT 15
AY891391/c
LOCUS
DEFINITION
Synthetic construct Homo sapiens clone FLH030949.01L nuclease
sensitive element binding protein 1 (NSEP1) mRNA, partial cds.
ACCESSION
AY891391
VERSION
AY891391.1 GI:61369329
KEYWORDS
Human ORF Project.
SOURCE
synthetic construct
ORGANISM
other sequences; artificial sequences.
1 (bases 1 to 975)
Hines,L., Rolfs,A., Jepsen,D., Moreira,D., Raphael,J., Kelley,F.,
Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E.,
Williamson,J. and LaBaer,J.
Cloning of human full-length CDS in Creator (TM) recombinational
vector system
Unpublished
2 (bases 1 to 975)
Hines,L., Rolfs,A., Jepsen,D., Moreira,D., Raphael,J., Kelley,F.,
Shen,B., Halleck,A., Koundinya,M., Hu,Y., Zuo,D., Taycher,E.,
Williamson,J. and LaBaer,J.
Direct Submission
Submitted (05-JAN-2005) Biological Chemistry and Molecular
Pharmacology, Harvard Institute of Proteomics, 320 Charles St.,
Cambridge, MA 02141, USA
This CDS clone is a part of a collection of human full-length
expression clones generated by Harvard Institute of Proteomics.
This ORF clone has been cloned without stop-codon (to allow fusion
with C-terminal tag). The CDS has been directionally cloned using
BD In-Fusion (TM) cloning system between the SalI and HindIII sites
of the pDNR-Dual vector. Additional sequences in the clone: 'ACC'
after SalI site and before 'ATG' to provide Kozak consensus
sequence; 'GG' after last codon and before HindIII site to maintain
reading frame. Each clone is clonally isolated and full-length
sequence-verified.
FEATURES
source
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1. .>975
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1. .>975
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/codon_start=1
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:08:45 ; Search time 2518 Seconds
(without alignments)
408.783 Million cell updates/sec

Title: US-10-028-415-20

Perfect score: 22

Sequence: 1 ctgcacaggagggttggaatac 22

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

- 1: gb_est1.*
- 2: gb_est2.*
- 3: gb_est3.*
- 4: gb_hic.*
- 5: gb_est4.*
- 6: gb_est5.*
- 7: gb_est6.*
- 8: gb_est7.*
- 9: gb_gss1.*
- 10: gb_gss2.*
- 11: gb_gss3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	22	100.0	95	3	BM194709
C 2	22	100.0	132	1	A1905848
C 3	22	100.0	137	8	N85328
C 4	22	100.0	152	1	A1905850
C 5	22	100.0	178	2	BF757327
C 6	22	100.0	181	8	T63887
C 7	22	100.0	199	3	BM851169
C 8	22	100.0	205	1	AW361577
C 9	22	100.0	211	1	A1907390
C 10	22	100.0	218	2	BF827899
C 11	22	100.0	229	3	BQ048903
C 12	22	100.0	232	3	BM849989
C 13	22	100.0	239	1	A1905842
C 14	22	100.0	264	1	AW059746
C 15	22	100.0	270	2	BG990119
C 16	22	100.0	276	2	BF858412
C 17	22	100.0	281	2	BF991764
C 18	22	100.0	287	2	BF331397
C 19	22	100.0	287	3	BM013541
C 20	22	100.0	289	2	BF991767
C 21	22	100.0	294	2	BF991360
C 22	22	100.0	295	8	W16742

C 23	22	100.0	300	2	BF762156
C 24	22	100.0	304	2	BF378675
C 25	22	100.0	304	8	T29674
C 26	22	100.0	305	8	N46380
C 27	22	100.0	325	1	AW889366
C 28	22	100.0	328	3	BM850970
C 29	22	100.0	330	2	BF916151
C 30	22	100.0	331	1	A1907387
C 31	22	100.0	331	2	BE939753
C 32	22	100.0	341	1	AW938845
C 33	22	100.0	341	3	BM797655
C 34	22	100.0	343	1	AA172062
C 35	22	100.0	343	6	CB145305
C 36	22	100.0	345	8	RO1362
C 37	22	100.0	347	2	BE843807
C 38	22	100.0	349	1	AW068164
C 39	22	100.0	357	1	AW804381
C 40	22	100.0	357	2	BE825739
C 41	22	100.0	361	2	BF991791
C 42	22	100.0	362	2	BF991367
C 43	22	100.0	362	8	D56380
C 44	22	100.0	364	1	A1908098
C 45	22	100.0	364	2	BF858472

ALIGNMENTS

RESULT 1
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LOCUS
DEFINITION
EST356 Swine Xiang Longissimus Dorsi Muscle cDNA Library Sus scrofa
cDNA clone pm356 5', mRNA sequence.
ACCESSION
BM194709
VERSION
BM194709.1 GI:17653695
KEYWORDS
EST.
SOURCE
Sus scrofa (pig)
ORGANISM
Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;
Sus.
REFERENCE
1 (bases 1 to 95)
Wang,X., Li,N., Wu,C. and Li,C.
The Study on Pig Muscle Developmental Biology by Analysis of
Expressed Sequence Tags
Unpublished (2001)
JOURNAL
COMMENT
Contact: Wang Xiuli
Department of Animal Science and Technology, The national key
laboratory of agro-department
China Agricultural University
Yuan Ming Yuan West Road 2, Beijing, China, 100094
Email: xiuliwang318@263.net
This sequence may serve as a candidate gene of meat quality
Seq primer: T3 Primer.
FEATURES
source
1..95
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Library"
/note="Organ: Longissimus Dorsi Muscle; The EST sequences
were gotten from sequencing xiang pig muscle cDNA Library"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 10;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


```
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
project. This entry can be seen in the following URL
(http://www.ludwig.org.br/seq/gethtml.pl?tl=QV&t2=QV-BT100-017_1.ht
ml&t3=150399&t4=1)
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Location/Qualifiers
1..152
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/db_xref="taxon:9606"
/sex="female"
/dev_stage="Adult"
/clone_lib="BT100"
/note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2:
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from ORESTES PCR (U.S. Letters Patent application No.
196,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."
ORIGIN
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Best Local Similarity 100.0%; Pred. No. 11;
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Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 87 CTGCACAGGAGGGTTGGAATAC 108
RESULT 5
LOCUS BF757327/c 178 bp mRNA linear EST 12-JAN-2001
DEFINITION MRO-CT0540-041100-101-f02 CT0540 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF757327
VERSION BF757327.1 GI:12105227
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 178)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.P.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=MRO&t2=MRO-CT0540-
041100-101-f02&t3=2000-11-04&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 12
High quality sequence stop: 178.
Location/Qualifiers
1..181
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="IMAGE:80899"
/sex="male"
/dev_stage="72 years"
/lab_host="SOLR cells (kanamycin resistant)"
/clone_lib="Stratagene lung (#937210)"
FEATURES
source
1..178
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="CT0540"
/note="Organ: colon; Vector: puc18; Site_1: SmaI; Site_2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No.
196,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."
ORIGIN
Query Match 100.0%; Score 22; DB 2; Length 178;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 94 CTGCACAGGAGGGTTGGAATAC 73
RESULT 6
LOCUS T63887 181 bp mRNA linear EST 17-FEB-1995
DEFINITION YC16h10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone
IMAGE:80899 3' similar to gb:J03827 Y BOX BINDING PROTEIN-1
(HUMAN);, mRNA sequence.
T63887
T63887.1 GI:667752
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 181)
Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,
Chisoe,S., Dietrich,N., DuBuque,T., Favello,A., Gish,W.,
Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N.,
Mardis,E., Moore,B., Morris,M., Parsons,J., Prange,C., Rifkin,L.,
Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J.,
Trevaaskis,E., Underwood,K., Wohldmann,P., Waterston,R., Wilson,R.
and Marra,M.
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
889549
Contact: Wilson RK
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 563
High quality sequence stops: 149 Source: IMAGE Consortium, LNL This
clone is available royalty-free through LNL; contact the IMAGE
Consortium (info@image.llnl.gov) for further information.
Insert Length: 563 Std Error: 0.00
Seq primer: -21ml3
High quality sequence stop: 149.
Location/Qualifiers
1..181
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:484516"
/db_xref="taxon:9606"
/clone_lib="IMAGE:80899"
/sex="male"
/dev_stage="72 years"
/lab_host="SOLR cells (kanamycin resistant)"
/clone_lib="Stratagene lung (#937210)"
FEATURES
source
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/note="Organ: lung; Vector: pBluescript SK-; Site 1: EcoRI; Site 2: XhoI; Cloned unidirectionally. Primer: Oligo dT, normal lung. Average insert size: 1.0 kb; Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTCGACGAG 3' -3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3"

ORIGIN

Query Match 100.0%; Score 22; DB 8; Length 181;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
|||||
Db 112 CTGCACAGGAGGGTTGGAATAC 133

RESULT 7

BM851169/c
LOCUS BM851169 199 bp mRNA linear EST 06-MAR-2002
DEFINITION K-EST0131931 S19N665307 Homo sapiens cDNA clone S19N665307-17-A01
5', mRNA sequence.

ACCESSION BM851169
VERSION BM851169.1 GI:19207568
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE

1 (bases 1 to 199)
Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
Kim,Y.S.

TITLE

21C Frontier Korean EST Project 2001

JOURNAL

Unpublished (2002)

COMMENT

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology

52 Soeun-dong Yuseong-gu, Daejeon 305-333, South Korea

Tel: +82-42-860-4470

Fax: +82-42-860-4409

Email: yongsung@mail.kribb.re.kr

Plate: 17 row: A column: 01

High quality sequence stop: 199.

FEATURES

source

1..199
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="S19N665307-17-A01"
/sex="M"
/lab_host="Top10F"

/clone_lib="S19N665307"

/note="Organ: Stomach; Vector: pCNS; Site 1: EcoRI;
Site 2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tobacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including EcoR
I site by treatment of T4 RNA ligase and the first strand
cDNA was synthesized from oligo dT-selected mRNA by
priming with dT-tailed vector. The dT-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli Top10F by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library."

ORIGIN

Query Match 100.0%; Score 22; DB 3; Length 199;
Best Local Similarity 100.0%; Pred. No. 11;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTGCACAGGAGGGTTGGAATAC 22
|||||
Db 172 CTGCACAGGAGGGTTGGAATAC 151

RESULT 8

AW361577/c

LOCUS AW361577 205 bp mRNA linear EST 04-FEB-2000
DEFINITION PMO-CT0263-151099-002-e10 CT0263 Homo sapiens cDNA, mRNA sequence.

ACCESSION AW361577

VERSION AW361577.1 GI:6866331

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE

1 (bases 1 to 205)

HCGP <http://www.ludwig.org.br/ORESTES>.

The FAPESP/LICR Human Cancer Genome Project

Unpublished (1999)

JOURNAL

COMMENT Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM0&t2=PM0-CT0263-151099-002-e10&t3=1999-10-15&t4=1>)

Seq primer: puc 18 forward

High quality sequence start: 8

High quality sequence stop: 84.

FEATURES

source

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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="CT0263"

/note="Organ: colon; Vector: puc18; Site 1: SmaI; Site 2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No.
196,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."

ORIGIN

Query Match 100.0%; Score 22; DB 1; Length 205;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
|||||
Db 123 CTGCACAGGAGGGTTGGAATAC 102

RESULT 9

AI907390

LOCUS AI907390

DEFINITION QV-BT141-180399-018 BT141 Homo sapiens cDNA, mRNA sequence.

ACCESSION AI907390

VERSION AI907390.1 GI:6497820

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 211)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
JOURNAL
PUBMED
COMMENT
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/seq/gethtml.pl?ti=QV6t2-QV-BT141-018.html
&t3=180398&t4=1)
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/sex="female"
/clone_lib="BT141"
/dev_stage="Adult"
/note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No.
196,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."

Query Match 100.0%; Score 22; DB 1; Length 211;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGCACAGGAGGGTTGGAATAC 22
DB 61 CTGCACAGGAGGGTTGGAATAC 82

RESULT 10
BF827899 218 bp mRNA linear EST 13-JAN-2001
LOCUS RCO-HN0024-061200-031-e10 HN0024 Homo sapiens cDNA, mRNA sequence.
DEFINITION BF827899
ACCESSION BF827899.1 GI:12172185
VERSION EST.
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 218)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags

Query Match 100.0%; Score 22; DB 2; Length 218;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGCACAGGAGGGTTGGAATAC 22
DB 195 CTGCACAGGAGGGTTGGAATAC 216

RESULT 11
BQ048903/c
LOCUS AGENCOURT 6832553 NIH_MGC_92 Homo sapiens cDNA clone IMAGE:5789593
DEFINITION 5', mRNA sequence.
ACCESSION BQ048903
VERSION BQ048903.1 GI:19808243
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 229)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
http://image.llnl.gov
Plate: L1AM12883 row: g column: 02
High quality sequence stop: 228.
Location/Qualifiers
1..229
/organism="Homo sapiens"

Query Match 100.0%; Score 22; DB 2; Length 218;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGCACAGGAGGGTTGGAATAC 22
DB 195 CTGCACAGGAGGGTTGGAATAC 216

RESULT 11
BQ048903/c
LOCUS AGENCOURT 6832553 NIH_MGC_92 Homo sapiens cDNA clone IMAGE:5789593
DEFINITION 5', mRNA sequence.
ACCESSION BQ048903
VERSION BQ048903.1 GI:19808243
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 229)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
http://image.llnl.gov
Plate: L1AM12883 row: g column: 02
High quality sequence stop: 228.
Location/Qualifiers
1..229
/organism="Homo sapiens"


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RESULT 14
AW059746
LOCUS
DEFINITION
  LE3a11.V9 DNC15 Homo sapiens cDNA similar to Y BOX BINDING
ACCESSION
  AW059746
VERSION
  AW059746.1 GI:6652068
KEYWORDS
  EST.
SOURCE
  Homo sapiens (human)
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
  Homnidae; Homo.
REFERENCE
  1 (bases 1 to 264)
AUTHORS
  Brenner,S., Williams,S.R., Vermaas,E.H., Storck,T., Moon,K.,
  McCollum,C., Mao,J.I., Kirchner,J.J., Eletr,S., DuBridge,R.B.,
  Burcham,T. and Albrecht,G.
TITLE
  In vitro cloning of complex mixtures of DNA on microbeads: Physical
  separation of differentially expressed cDNAs
JOURNAL
  Proc. Natl. Acad. Sci. U.S.A. 97 (4), 1665-1670 (2000)
PUBMED
  10677516
COMMENT
  Contact: Burcham TS
  LYNX Therapeutics, Inc.
  25861 Industrial Blvd., Hayward, CA 94545, USA
  Tel: 510 670 9338
  Fax: 510 670 9302
  Email: tim@lynxgen.com
  Sequence obtained from LYNX Therapeutics Megasort technology.
  Collected from the down-regulated gate.
  High quality sequence stop: 264.
  Location/Qualifiers
  1..264
  /organism="Homo sapiens"
  /mol_type="mRNA"
  /db_xref="taxon:9606"
  /cell_type="monocytic leukemia"
  /cell_line="THP-1 (TIB-202)"
  /clone_lib="DNC15"
  /note="Vector: PCR2.1; Cloning of PCR products from
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  cells non-induced (treated with DMSO only)."
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ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 264;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
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Db 140 CTGCACAGGAGGGTTGGAATAC 161

RESULT 15
BG990119/c
LOCUS
DEFINITION
  MR3-HT1104-230101-002-e01 HT1104 Homo sapiens cDNA, mRNA sequence.
ACCESSION
  BG990119
VERSION
  BG990119.1 GI:14394189
KEYWORDS
  EST.
SOURCE
  Homo sapiens (human)
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
  Homnidae; Homo.
REFERENCE
  1 (bases 1 to 270)
AUTHORS
  Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
  Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
  Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
  Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V.,
  O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
  Simpson,A.J.
```

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ORIGIN
Query Match      100.0%; Score 22; DB 2; Length 270;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
    |||||
Db 197 CTGCACAGGAGGGTTGGAATAC 176

Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=MR3&t2=MR3-HT1104-
230101-002-e01&t3=2001-01-23&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 270.
Location/Qualifiers
1..270
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/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="HT1104"
/note="Organ: head neck; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
```

```
ORIGIN
Query Match      100.0%; Score 22; DB 2; Length 270;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
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Db 197 CTGCACAGGAGGGTTGGAATAC 176

Search completed: January 8, 2006, 18:38:36
Job time : 2522 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 16:24:54 ; Search time 306 Seconds

(without alignments)
479.161 Million cell updates/sec

Title: US-10-028-415-20

Perfect score: 22

Sequence: 1 ctcgacaggagggttggaatac 22

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N Geneseq_21.*

1: geneseqn1980s.*

2: geneseqn1990s.*

3: geneseqn2000s.*

4: geneseqn2001as.*

5: geneseqn2001bs.*

6: geneseqn2002as.*

7: geneseqn2002bs.*

8: geneseqn2003as.*

9: geneseqn2003bs.*

10: geneseqn2003cs.*

11: geneseqn2003ds.*

12: geneseqn2004as.*

13: geneseqn2004bs.*

14: geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	100.0	22	6	ABK88718 Human YB-
2	22	100.0	152	10	ACD97151 Human col
3	22	100.0	250	6	AAI68908 Activated
4	22	100.0	314	12	ACH84678 Human gen
5	22	100.0	364	10	ACD92102 Human col
6	22	100.0	400	2	AAV87523 EST clone
7	22	100.0	451	6	ABQ60291 Human col
8	22	100.0	478	9	ACH49466 Human leu
9	22	100.0	523	14	ACL62195 Human col
10	22	100.0	545	13	ADU12962 Solid tum
11	22	100.0	557	13	ACN38892 Tumour-as
12	22	100.0	560	6	ABQ57856 Human col
13	22	100.0	595	12	ACH70978 Human gen
14	22	100.0	781	13	ACN39715 Tumour-as
15	22	100.0	822	6	AAK62159 Porcine m
16	22	100.0	954	6	ABK50501 DNA encod
17	22	100.0	1353	13	ACN39713 Tumour-as
18	22	100.0	1363	12	ADQ84349 Human tum
19	22	100.0	1363	13	ACN37358 Tumour-as

C	20	22	100.0	1473	12	ADQ85063 Human tum
C	21	22	100.0	1473	13	ADQ87408 Human tum
C	22	22	100.0	1473	13	ACN38891 Tumour-as
C	23	22	100.0	1474	6	ABK84103 Human CDN
C	24	22	100.0	1474	10	ADG89384 Cancer de
C	25	22	100.0	1474	13	ADR25196 Breast ca
C	26	22	100.0	1474	13	ADP54732 Human PRO
C	27	22	100.0	1474	14	ADX97719 Human nuc
C	28	22	100.0	1474	14	ADX05879 Cyclin-de
C	29	22	100.0	1474	14	ADY15979 DNA encod
C	30	22	100.0	1481	4	AAC81319 Human YB-
C	31	22	100.0	1481	6	ABSS4998 Human YB-
C	32	22	100.0	1481	6	ABN95602 Gene #210
C	33	22	100.0	1481	10	ABZ99616 Human Y-b
C	34	22	100.0	1516	8	AAD55839 Human nuc
C	35	22	100.0	1520	10	ADB47382 Human CDN
C	36	22	100.0	1548	2	AAZ77507 Human ova
C	37	22	100.0	1554	14	ADZ49037 Insulin s
C	38	22	100.0	1978	8	AAI51561 Human nuc
C	39	22	100.0	3073	2	AAQ14635 Clone ass
C	40	22	100.0	3073	2	AAT34371 Plasmid p
C	41	22	100.0	3073	2	AAZ32246 Human g11
C	42	22	100.0	3073	3	AAA88181 pATG29 hu
C	43	20.4	92.7	448	8	ABX45462 Bovine ES
C	44	20.4	92.7	1404	13	ACN38702 Tumour-as
C	45	20.4	92.7	1522	13	ACN40311 Tumour-as

ALIGNMENTS

RESULT 1

ABK88718

ID ABK88718 standard; DNA; 22 BP.

AC ABK88718;

XX 07-OCT-2002 (first entry)

XX Human YB-1 anti-sense strand, phosphorothioate oligonucleotide #2.

XX Human; apoptotic cell death; proteinaceous transcription factor;
regulation of gene transcription; apoptosis; p53; CD95; TRA;
transcriptional regulator of apoptosis; Y-box family; YB-1; cancer;
tumour cell; embryonic cell; nervous system; intracellular pathogen;
DNA-damaging agent; retroviral infection; neurodegenerative disorder;
immune system dysfunction; anti-tumour; cytostatic; phosphorothioate; ss.
Homo sapiens.

Key Location/Qualifiers

modified_base 1..22

FT /*tag= a

FT /mod_base= OTHER

FT /note= "Phosphorothioate internucleotide linkages"

FT WO200244363-A1.

PD 06-JUN-2002.

XX 28-NOV-2001; 2001WO-NZ000287.

XX 28-NOV-2000; 2000US-00724809.

PA (GENE-) GENESIS RES & DEV CORP LTD.

XX Lasham A, Watson JD;

PI WPI; 2002-557540/59.

XX Modulating p53-mediated apoptotic cell death in a population of cells, by
modulating the amount of a transcriptional regulator of apoptosis
available to bind to a target polynucleotide in the cells.

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XX PS The present invention relates to methods for modulating apoptotic cell
XX CC death using proteinaceous transcription factors that regulate the
XX CC transcription of genes encoding proteins involved in apoptosis (e.g. CD95
XX CC and p53). The methods involve modulating the amount of a transcriptional
XX CC regulator of apoptosis (TRA) available to bind to a target polynucleotide
XX CC in the cells, where TRA is a member of the Y-box nucleic acid binding
XX CC family of polypeptides (e.g. YB-1). The methods of the invention are
XX CC useful for modulating apoptotic cell death in a population of cells,
XX CC where the cells are selected from tumour cells, cells of the immune
XX CC system, embryonic cells, cells of the nervous system, or cells infected
XX CC with intracellular pathogens. The methods are also useful for increasing
XX CC the sensitivity of tumour cells to a DNA-damaging agent, and for
XX CC increasing sensitivity to apoptosis in a population of cells harbouring
XX CC intracellular pathogens. The methods are useful for screening an
XX CC apoptosis modulatory agent that modulates the binding of TRA. The methods
XX CC for regulating apoptosis can be used therapeutically and prophylactically
XX CC for various disorders such as cancer, viral and retroviral infections,
XX CC neurodegenerative disorders, and immune system dysfunction. The present
XX CC sequence represents a phosphorothioate oligonucleotide to the anti-sense
XX CC strand of human YB-1
XX SQ Sequence 22 BP; 6 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
Db 1 CTGCACAGGAGGTTGGAATAC 22

RESULT 2
ACD97151
ID ACD97151 standard; cDNA; 152 BP.
XX AC ACD97151;
XX DT 23-SRP-2003 (first entry)
XX DE Human colon cancer cell expressed cDNA #5563.
XX KW Open reading frame detection; genome sequencing; colon cancer;
XX KW breast cancer; population genome analysis; genetic shift; cancer;
XX KW antibiotic resistance; antibiotic non-tolerance; congenital disease;
XX KW agriculture; food crop genome; resistance gene; retrovirus;
XX KW influenza virus; eukaryotic pathogen detection; trypanosome; Plasmodium;
XX KW gene; ss.
XX OS Homo sapiens.
XX PN US2002155438-A1.
XX PD 24-OCT-2002.
XX XX 27-SEP-1999; 99US-00406117.
XX PR 20-NOV-1998; 98US-00196716.
XX XX (SIMP/) SIMPSON A J G.
XX PA (NETO/) NETO E D.
XX PA (BREN/) BRENTANI R R.
XX XX Simpson AJG, Neto ED, Brentani RR;
XX DR WPI; 2003-182626/19.
XX XX Determining open reading frames of genome of an organism e.g. a human
XX PT suffering from cancer involves use of single oligonucleotide primer at
XX PT low stringency for preparing single-stranded cDNA from mRNA of

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PT individual.
XX Example 9; Page 794; 959pp; English.
XX The invention describes a method of determining open reading frames in
CC the genome of organism, comprising contacting mRNA from cell of organism
CC with a single oligonucleotide primer (I) at low stringency, preparing
CC single-stranded cDNA by reverse transcribing mRNA with (I), amplifying
CC cDNA, sequencing the product and repeating the contacting, preparing
CC and amplifying steps with different primers and sequencing resulting
CC nucleic acids. The method is useful for: determining that a known
CC nucleotide sequence of a genome of an organism corresponds to a
CC nucleic acid molecule from a genome of an organism; and for sequencing
CC all or part of a genome of an organism. mRNA is obtained from mammalian
CC or human cell which is associated with a pathological condition e.g. a
CC colon cancer or breast cancer cell. The method is useful for analyses of
CC populations of subjects and can be used to carry out genetic analyses of
CC large or small populations. further, it can be used to study living
CC systems to determine if, e.g. there have been genetic shifts which render
CC an individual or population more or less likely to be afflicted with
CC diseases such as cancer, to determine antibiotic resistance or non-
CC tolerance, and so forth. The method can also be used in the study of
CC the study of whether the conditions are likely to be passed to offspring
CC through ova or sperm. The analyses for pathological conditions can be
CC carried out in all animals, plants, birds, fish, etc. Using this method,
CC in the area of agriculture, for example the genomes of food crops can be
CC studied to determine if resistance genes are present, defects in plant
CC genomes can also be studied in this way. Similarly, the method permits
CC determination of the pathogens which integrate into the genome, such as
CC retroviruses and other integrating viruses such as influenza virus, have
CC undergone shifts or mutations, which may require different approaches to
CC therapy. This method is also applied to eukaryotic pathogens, such as
CC trypanosomes, different types of Plasmodium, etc. The method essentially
CC eliminates sequencing of non-coding portions. This sequence represents a
XX polynucleotide isolated from human colon cancer cell cDNA library
XX SQ Sequence 152 BP; 27 A; 49 C; 34 G; 41 T; 0 U; 1 Other;

Query Match 100.0%; Score 22; DB 10; Length 152;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
Db 87 CTGCACAGGAGGTTGGAATAC 108

RESULT 3
AAI68908/c
ID AAI68908 standard; DNA; 250 BP.
XX AC AAI68908;
XX DT 29-JAN-2002 (first entry)
XX DE Activated T-cell derived DNA fragment #44.
XX KW Activated T-cell; immunosuppressive; immunostimulant; antiinflammatory;
XX KW cytostatic; gene therapy; vaccine; allergen; transplant rejection;
XX KW guest versus host disease; malignant disease; ds.
XX OS Homo sapiens.
XX PN DE10021834-A1.
XX PD 15-NOV-2001.
XX PF 06-MAY-2000; 2000DE-01021834.
XX PR 06-MAY-2000; 2000DE-01021834.
XX PT

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PA (LYNX-) LYNX THERAPEUTICS GMBH.
XX Kramer MD, Winter H, Reinartz J;
XX WPI; 2002-027320/04.
XX New mRNA indicative of T cell activation and functional status, useful
XX for diagnosis and therapy e.g. of autoimmunity or transplant rejection.
PS Claim 1; Page 20; 94pp; German.
XX This sequence represents a novel messenger RNA, (mRNA), (I), for use as
XX indicator of the activation and functional status of T cells, that have
XX increased or reduced expression, and are present at higher or lower
XX concentration, in activated T cells, relative to normal or resting cells,
XX where (i) hybridizes to any of 334 sequences, reproduced, or their
XX derivatives, complements or fragments. The products of the invention have
XX immunosuppressive, immunostimulant, antiinflammatory and cytostatic
XX activity and can be used for gene therapy. The polynucleotides of the
XX invention are used: (i) as reagent for detecting activation/functional
XX status of T cells, for diagnosis, therapy, modulation or control of the
XX status, in cases of (auto)immunity (against microorganisms, vaccines or
XX allergens); transplant rejection; immunologically-related inflammation;
XX immunosuppression; immune deficiency; guest versus host disease, and
XX malignant diseases of the immune system; (ii) for identifying agents,
XX potential pharmaceuticals, that bind to (II) or derived polypeptides
XX (III); (iii) to prepare kits for measuring gene expression profiles in
XX isolated immune, especially T, cells; (iv) to raise antibodies (Ab)
XX directed against (III); and (v) to prepare binding molecules (IV)
XX specific for (II). Ab and (IV) are also useful for detecting and
XX modulating the activation and functional status of T cells. AA16865-
XX AA169198 represent the activated T-cell derived polynucleotide fragments
XX described in the method of the invention
SQ Sequence 250 BP; 65 A; 71 C; 77 G; 37 T; 0 U; 0 Other;
Query Match 100.0%; Score 22; DB 6; Length 250;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 125 CTGCACAGGAGGGTTGGAATAC 104
RESULT 4
ACH84678
ID ACH84678 standard; DNA; 314 BP.
XX ACH84678;
XX 29-JUL-2004 (first entry)
XX Human genome derived single exon probe #17873.
XX Human; probe; ss; gene expression; single exon probe; microarray;
XX alternative splicing event; genomic alteration.
XX Homo sapiens.
XX US2003194704-A1.
XX 16-OCT-2003.
XX 03-APR-2002; 2002US-00029386.
XX 03-APR-2002; 2002US-00029386.
XX (PENN/) PENN S G.
XX (RANK/) RANK D R.
XX (HANK/) HANZEL D K.
XX Penn SG, Rank DR, Hanzel DK;

XX WPI; 2004-119264/12.
XX New human genome-derived single exon nucleic acid probes useful for human
XX gene expression analysis, for identifying or characterizing alternative
XX splicing events, for assessing genomic alterations or as tools for
XX surveying tissues.
PS Claim 1; SEQ ID NO 17873; 80pp; English.
XX The invention relates to a nucleic acid probe for measuring human gene
XX expression, comprising any of the 27,400 fully defined nucleotide
XX sequences in the specification, or their complements or fragments, and
XX encoding at least 8 amino acids of any of the 6888 amino acid sequences
XX fully defined in the specification. The probe is a single exon probe that
XX hybridises under high stringency conditions to a nucleic acid molecule
XX expressed in human cells or tissues. Also included are a spatially-
XX addressable set of single exon nucleic acid probes for measuring human
XX gene expression (comprising a plurality of single exon nucleic acid
XX probes cited above, where each of the plurality of probes is separately
XX and addressably isolatable or amplifiable from the plurality), a single
XX exon microarray for measuring human gene expression, a method of
XX measuring human gene expression, a vector comprising the single exon
XX probe cited above, an ORF-encoded peptide comprising at least 8
XX contiguous amino acids of any of the above-mentioned amino acid
XX sequences (optionally with conservative amino acid substitutions), an
XX isolated antibody that binds specifically to a peptide cited above,
XX methods of selling and/or licensing single exon probes or microarrays to
XX a customer desiring to measure gene expression, a method of providing
XX human gene expression data by subscription, and a computer-readable
XX storage medium which contains a database having a plurality of records
XX (each record including data on the expression of a single exon probe
XX cited above). The probe, methods and apparatus are useful in gene
XX expression analysis. The probes may be used as tools for surveying
XX tissues to detect the presence of expressed messages that contain their
XX specific exon, or in constructing genome-derived single exon microarrays.
XX In addition, the probes are used in identifying and characterising
XX alternative splicing events, in detecting and characterising gross
XX alterations in the genomic locus that includes their exon, in assessing
XX smaller genomic alterations, in priming the synthesis of nucleic acids,
XX or in expressing the ORF-encoded peptide. The present sequence is a human
XX single exon probe of the invention. Note: The sequence data for this
XX patent did not form part of the printed specification, but was obtained
XX in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html?DocID=20030194704
SQ Sequence 314 BP; 58 A; 83 C; 83 G; 90 T; 0 U; 0 Other;
Query Match 100.0%; Score 22; DB 12; Length 314;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 43 CTGCACAGGAGGGTTGGAATAC 64
RESULT 5
ACD92102/c
ID ACD92102 standard; cDNA; 364 BP.
XX ACD92102;
XX 23-SEP-2003 (first entry)
XX Human colon cancer cell expressed cDNA #514.
XX Open reading frame detection; genome sequencing; colon cancer;
XX breast cancer; population genome analysis; genetic shift; cancer;
XX antibiotic resistance; antibiotic non-tolerance; congenital disease;
XX agriculture; food crop genome; resistance gene; retrovirus;
XX influenza virus; eukaryotic pathogen detection; trypanosome; Plasmodium;
XX gene; ss.

XX Homo sapiens.
OS US2002155438-A1.
XX 24-OCT-2002.
XX 27-SEP-1999; 99US-00406117.
XX 20-NOV-1998; 98US-00196716.
XX (SIMP/) SIMPSON A J G.
PA (NETO/) NETO E D.
PA (BRENTANI) BRENTANI R R.
XX Simpson AJG, Neto ED, Brentani RR;
PI WPI; 2003-182626/18.
XX
XX Determining open reading frames of genome of an organism e.g. a human
PT suffering from cancer involves use of single oligonucleotide primer at
PT low stringency for preparing single-stranded cDNA from mRNA of
PT individual.
XX
XX Example 9; Page 76; 959pp; English.
XX The invention describes a method of determining open reading frames in
CC the genome of organism, comprising contacting mRNA from cell of organism
CC with a single oligonucleotide primer (I) at low stringency, preparing
CC single-stranded cDNA by reverse transcribing mRNA with (I), amplifying
CC cDNA, sequencing the product, and repeating the contacting, preparing
CC and amplifying steps with different primers and sequencing resulting
CC nucleic acids. The method is useful for: determining that a known
CC nucleotide sequence from a genome of an organism corresponds to a
CC nucleotide sequence of an open reading frame; for preparing a contig,
CC nucleic acid molecule from a genome of an organism; and for sequencing
CC all or part of a genome of an organism. mRNA is obtained from mammalian
CC or human cell which is associated with a pathological condition e.g. a
CC colon cancer or breast cancer cell. The method is useful for analyses of
CC populations of subjects and can be used to carry out genetic analyses of
CC large or small populations. Further, it can be used to study living
CC systems to determine if, e.g. there have been genetic shifts which render
CC an individual or population more or less likely to be afflicted with
CC diseases such as cancer, to determine antibiotic resistance or non-
CC tolerance, and so forth. The method can also be used in the study of
CC congenital diseases, and the risk of affliction to a foetus, as well as
CC the study of whether the conditions are likely to be passed to offspring
CC through ova or sperm. The analyses for pathological conditions can be
CC carried out in all animals, plants, birds, fish, etc. Using this method,
CC in the area of agriculture, for example the genomes of food crops can be
CC studied to determine if resistance genes are present, defects in plant
CC genomes can also be studied in this way. Similarly, the method permits
CC determination of the pathogens which integrate into the genome, such as
CC retroviruses and other integrating viruses such as influenza virus, have
CC undergone shifts or mutations, which may require different approaches to
CC therapy. This method is also applied to eukaryotic pathogens, such as
CC trypanosomes, different types of Plasmodium, etc. The method essentially
CC eliminates sequencing of non-coding portions. This sequence represents a
CC polynucleotide isolated from human colon cancer cell cDNA library
XX
XX Sequence 364 BP; 113 A; 105 C; 99 G; 47 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 10; Length 364;
Best Local Similarity 100.0%; Pred. No. 0.74;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
DB 105 CTGCACAGGAGGGTTGGAATAC 84

RESULT 6
AAV87523

ID AAV87523 standard; cDNA; 400 BP.
XX
AC AAV87523;
XX
DT 12-FEB-1999 (first entry)
XX
DE EST clone BK8.
XX
KW Expressed sequence tag; secreted protein; haematopoiesis regulator;
KW tissue growth; activin; inhibin; tumour invasion suppressor; EST; human;
KW chemotaxis; chemokinesis; haemostasis; gene therapy; thrombolysis;
KW receptor; ligand; anti-inflammatory; tumour inhibitor; ds.
XX
OS Homo sapiens.
XX
FN WO9845437-A2.
XX
PD 15-CCT-1998.
XX
PF 10-APR-1998; 98WO-US006956.
XX
PR 10-APR-1997; 97US-00837312.
XX
PA (GENY) GENETICS INST INC.
XX
PI Jaccbs K, McCoy JM, Lavallie ER, Racie LA, Merberg D, Treacy M;
PI Spaulding V, Agostino MJ;
XX
DR WPI; 1999-070078/06.
XX
XX New polynucleotides encoding human secreted proteins - derived from e.g.
PT human blood, kidney, foetal lung, placenta, testes, brain, ovary,
PT pituitary, retina and colon cDNA libraries.
XX
PS Claim 1; Page 92-93; 641pp; English.
XX
CC The present sequence represents an expressed sequence tag (EST), and is a
CC polynucleotide of the invention. The polynucleotides of the invention are
CC all secreted EST sequences isolated from a variety of human tissue
CC sources. The EST sequences and proteins encoded by them are predicted to
CC have useful biological activities which would make them suitable for
CC treating, preventing or ameliorating medical conditions in humans and
CC animals, although no supporting data is given. Suggested activities
CC include nutritional activity, immune stimulating or suppressing activity,
CC haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
CC activity. The EST sequences are also stated to be useful for gene therapy
XX
SQ Sequence 400 BP; 60 A; 112 C; 107 G; 121 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 2; Length 400;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGGTTGGAATAC 22
DB 200 CTGCACAGGAGGGTTGGAATAC 221

RESULT 7
ABQ60291
ID ABQ60291 standard; cDNA; 451 BP.
XX
AC ABQ60291;
XX
DT 02-AUG-2002 (first entry)
XX
DE Human colon cancer related nucleotide sequence SEQ ID NO:3986.
XX
KW Human; colon cancer; cancer; tissue profiling; forensic; mapping;
KW genetic analysis; diagnostic; antisense therapy; gene; ss.


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XX OS Homo sapiens.
XX PN WO200229086-A2.
XX PD 11-APR-2002.
XX PF 02-OCT-2001; 2001WO-US030732.
XX PR 02-OCT-2000; 2000US-0237271P.
XX PA (FARB ) BAYER CORP.
XX PI Burgess C, Aestle JH, Carroll E, Catino TU, Dwivedi P, Molino GA;
PI Thiaalingam A, Lewis ME;
XX DR WPI; 2002-426115/45.
XX PT New isolated nucleic acid that is differentially expressed in cancer
PT tissues useful for determining the presence of colon cancer in a cell or
PT tissue type, and in antisense therapy.
XX PS Claim 1; Fig 1; 796pp; English.
XX CC ABQ56306 to ABQ60787 represent isolated nucleic acids (I) differentially
XX expressed in cancer tissues. ABQ78993 to ABQ79004 represent proteins
XX encoded by the ABQ60776 to ABQ60787 nucleic acid sequences. (I) can be
XX used in antisense therapy. An antibody immunoreactive with a polypeptide
XX encoded by (I) is useful for detecting cancer in a patient sample, and
XX for detecting the presence or absence of a polynucleotide encoded by a
XX nucleic acid which hybridises to (I) in a cell. A probe/primer derived
XX from (I) can be used for determining the presence of a nucleic acid which
XX hybridises to (I), and for determining the phenotype of cells in a sample
XX of cells from a patient. (I) is useful for determining the presence of
XX colon cancer in a cell or tissue type, for determining the presence or
XX state of other type of cancer, in antisense therapy, to generate
XX macroarrays on a solid surface, to identify a chromosome on which the
XX corresponding gene resides, and in tissue profiling, forensics, genetic
XX analysis, mapping and diagnostic applications. (I) can be used to raise
XX antibodies, and to screen for peptide analogues and antagonists
XX SQ Sequence 451 BP; 68 A; 129 C; 115 G; 137 T; 0 U; 2 Other;

Query Match 100.0%; Score 22; DB 6; Length 451;
Best Local Similarity 100.0%; Pred. No. 0.76;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
DB 200 CTGCACAGGAGGTTGGAATAC 221

RESULT 8
ACH49466/c
ID ACH49466 standard; cDNA; 478 BP.
XX AC ACH49466;
XX DT 13-OCT-2003 (first entry)
XX DE Human leukocyte cDNA #1060.
XX KW Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
XX genome mapping; biodiversity; genetic disorder.
XX OS Homo sapiens.
XX PN US2003073623-A1.
XX PD 17-APR-2003.
XX PF 30-JUL-2001; 2001US-00918995.
XX PA (CHIR ) CHIRON CORP.
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PR 30-JUL-2001; 2001US-00918995.
XX PA (DRMA/) DRMANAC R T.
XX PA (LABA/) LABAT I.
XX PA (STAC/) STACHE-CRAIN B.
XX PA (DICK/) DICKSON M C.
XX PA (JONE/) JONES L W.
XX PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
XX DR WPI; 2003-615964/58.
XX PT New polynucleotide sequences obtained from various cDNA libraries, useful
PT as hybridization probes, as oligomers for PCR, for chromosome and gene
PT mapping, in the recombinant production of protein, or in generating
PT antisense DNA or RNA.
XX PS Claim 1; SEQ ID NO 36678; 44pp; English.
XX CC The invention relates to an isolated polynucleotide comprising any one of
XX 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
XX determined by the technique of SBH (sequencing by hybridisation). Also
XX included is a purified polypeptide comprising a sequence corresponding to
XX a reading frame of the novel polynucleotide. The nucleic acid sequences
XX are useful in diagnostics as expressed sequence tags (EST) for
XX identifying expressed genes or for physical mapping of the human genome,
XX in forensics, in assessing biodiversity, or in identifying mutations
XX responsible for genetic disorders and other traits. The nucleotide
XX sequences are also useful as hybridisation probes, as oligomers for PCR,
XX for chromosome and gene mapping, in the recombinant production of
XX protein, or in generating antisense DNA or RNA. The purified polypeptide
XX is useful for generating antibodies specific for it. The present sequence
XX is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
XX for this patent did not form part of the printed specification, but was
XX obtained in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html?docID=20030073623
XX SQ Sequence 478 BP; 139 A; 129 C; 128 G; 66 T; 0 U; 16 Other;

Query Match 100.0%; Score 22; DB 9; Length 478;
Best Local Similarity 100.0%; Pred. No. 0.76;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCACAGGAGGTTGGAATAC 22
DB 101 CTGCACAGGAGGTTGGAATAC 80

RESULT 9
ACL62195/c
ID ACL62195 standard; cDNA; 523 BP.
XX AC ACL62195;
XX DT 24-MAR-2005 (first entry)
XX DE Human colon cancer differentially expressed polynucleotide, SEQ ID:8330.
XX KW Differential expression; diagnosis; therapy; drug screening; cancer;
XX neoplasm; colon tumor; breast tumor; pancreas tumor; cytostatic; vaccine;
XX ss.
XX OS Homo sapiens.
XX PN WO2005000087-A2.
XX PD 06-JAN-2005.
XX PF 13-MAY-2004; 2004WO-US015421.
XX PR 03-JUN-2003; 2003US-0475872P.
XX PA (CHIR ) CHIRON CORP.
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KW chromosome identification; chromosome mapping; gene mapping;
KW gene therapy; cytostatic; gene; ss.

OS Homo sapiens.

PN WO2004030615-A2.

PD 15-APR-2004.

PF 29-SEP-2003; 2003WO-US028547.

PR 02-OCT-2002; 2002US-0414971P.

XX (GETH) GENENTECH INC.

PI Wu TD, Zhang Z, Zhou Y;

DR WPI; 2004-347921/32.

XX New tumor-associated antigenic target polypeptides and nucleic acids,
PT useful in preparing a medicament for treating or detecting a
PT proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT prostate cancer or tumor.

FS Claim 1; SEQ ID NO 2688; 7273pp; English.

XX The invention relates to human tumour-associated antigenic target (TAT)
CC polypeptides, and their related nucleic acids. The TAT polypeptides are
CC overexpressed in cancer tissues compared to normal tissues, and may thus
CC serve as effective targets for the diagnosis and treatment of cancer in
CC mammals. The invention also relates to nucleic acid and polypeptide
CC sequences at least 80% identical to the TAT nucleic acids and
CC polypeptides; expression vectors and host cells comprising a TAT nucleic
CC acid; an antibody specific for a TAT polypeptide; a peptide or organic
CC molecule which binds to a TAT polypeptide; fusion proteins comprising a
CC TAT polypeptide; and methods and compositions for the treatment or
CC diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
CC antibodies, antagonists, binding molecules and compositions are useful
CC for diagnosing or treating a cell proliferative disorder associated with
CC increased TAT expression, particularly cancers such as breast cancer,
CC colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
CC cancer, pancreatic cancer, cervical cancer, cancers of the central
CC nervous system, melanoma and leukaemia. TAT nucleic acids may further be
CC used as hybridisation probes, in chromosome and gene mapping, in
CC chromosome identification and in gene therapy. The present sequence
CC represents a TAT nucleic acid of the invention

SQ Sequence 557 BP; 182 A; 133 C; 131 G; 111 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 13; Length 557;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
|||||
Db 51 CTGCACAGGAGGGTTGGAATAC 30

RESULT 12

ABQ57856/c
ID ABQ57856 standard; cDNA; 560 BP.

AC ABQ57856;

XX 02-AUG-2002 (first entry)

DE Human colon cancer related nucleotide sequence SEQ ID NO:1551.

XX Human; colon cancer; cancer; tissue profiling; forensic; mapping;
KW genetic analysis; diagnostic; antisense therapy; gene; ss.

OS Homo sapiens.

XX

PN WO200229086-A2.

PD 11-APR-2002.

PF 02-OCT-2001; 2001WO-US030732.

PR 02-OCT-2000; 2000US-0237271P.

XX (FARB) BAYER CORP.

XX Burgess C, Astle JH, Carroll E, Catino TJ, Dwivedi P, Molino GA;
PI Thiagalingam A, Lewis ME;

XX WPI; 2002-426115/45.

XX New isolated nucleic acid that is differentially expressed in cancer
PT tissues useful for determining the presence of colon cancer in a cell or
PT tissue type, and in antisense therapy.

FS Claim 1; Fig 1; 796pp; English.

XX ABQ56306 to ABQ60787 represent isolated nucleic acids (I) differentially
CC expressed in cancer tissues. ABQ78993 to ABQ79004 represent proteins
CC encoded by the ABQ60776 to ABQ60787 nucleic acid sequences. (I) can be
CC used in antisense therapy. An antibody immunoreactive with a polypeptide
CC encoded by (I) is useful for detecting cancer in a patient sample, and
CC for detecting the presence or absence of a polynucleotide encoded by a
CC nucleic acid which hybridises to (I) in a cell. A probe/primer derived
CC from (I) can be used for determining the presence of a nucleic acid which
CC hybridises to (I), and for determining the phenotype of cells in a sample
CC of cells from a patient. (I) is useful for determining the presence of
CC colon cancer in a cell or tissue type, for determining the presence or
CC state of other type of cancer, in antisense therapy, to generate
CC macroarrays on a solid surface, to identify a chromosome on which the
CC corresponding gene resides, and in tissue profiling, forensic genetic
CC analysis, mapping and diagnostic applications. (I) can be used to raise
CC antibodies, and to screen for peptide analogues and antagonists

SQ Sequence 560 BP; 166 A; 128 C; 164 G; 97 T; 0 U; 5 Other;

Query Match 100.0%; Score 22; DB 6; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.78;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGCACAGGAGGGTTGGAATAC 22
|||||
Db 348 CTGCACAGGAGGGTTGGAATAC 327

RESULT 13

ACH70978

ID ACH70978 standard; DNA; 595 BP.

XX ACH70978;

XX 29-JUL-2004 (first entry)

DE Human genome derived single exon probe #4173.

XX Human; probe; ss; gene expression; single exon probe; microarray;
KW alternative splicing event; genomic alteration.

OS Homo sapiens.

XX US2003194704-A1.

XX 16-OCT-2003.

XX 03-APR-2002; 2002US-00029386.

XX 03-APR-2002; 2002US-00029386.

XX (PENN/) PENN S G.

KW wound healing; tumour; amyotrophic lateral sclerosis; ALS.
XX
OS Sus scrofa.
XX
XX WO200179287-A2.
XX
XX
PD 25-OCT-2001.
XX
XX 12-APR-2001; 2001WO-CA000509.
XX
XX 17-APR-2000; 2000US-0197936P.
XX
XX (MIAC) CANADA AGRIC & AGRI-FOOD CANADA.
XX
XX Palin M, Pomar C, Gariepy C;
XX
XX WPI; 2002-017600/02.
XX
XX
PT Prognosis and diagnosis of muscular steatosis, useful e.g. for selecting
PT animals for breeding, by measuring levels of specific markers, also
PT treating or inducing steatosis.
XX
XX
PS Claim 5; Page 182; 190pp; English.
XX
XX The invention relates to prognosis or diagnosis of muscular steatosis by
CC measuring the level of a muscular steatosis modulating factor (MSMF) in a
CC human or animal and comparing this with the level in a healthy control.
CC Any difference indicates presence of, or predisposition to, muscular
CC steatosis. The method is particularly used for diagnosis or prognosis of
CC muscular steatosis in mammals and birds, e.g. to select individuals as
CC founders in animal breeding. Also (ant)agonists of MSMF can be used to
CC treat, or induce (for increasing the fat content of food) muscular
CC steatosis, in humans and animals. The MSMF markers are also useful in the
CC study of diseases and conditions such as obesity, hyperlipidaemia,
CC atherosclerosis, wound healing, tumours and amyotrophic lateral sclerosis
CC (ALS). The present sequence is a MSMF of the invention
XX
SQ Sequence 822 BP; 155 A; 224 C; 177 G; 212 T; 0 U; 54 Other;
Query Match 100.0%; Score 22; DB 6; Length 822;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTGCACAGGAGGGTTGGAATAC 22
Db 71 CTGCACAGGAGGGTTGGAATAC 92

Search completed: January 8, 2006, 17:27:30
Job time : 309 secs

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